

Algebra II Lesson #2 Unit 1

Class Worksheet #2

For Worksheets #3 & #5

Algebra II Unit 1 Intervals and Interval Notation

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Any **convex set** of real numbers is called an **interval**.

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Convex polygons

Non-convex polygons

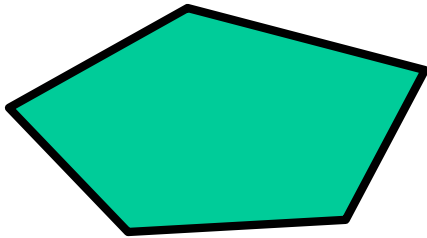
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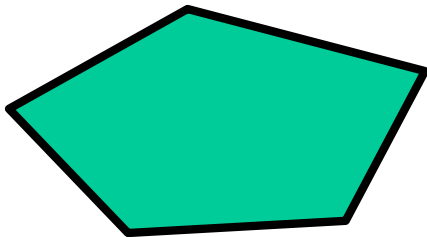
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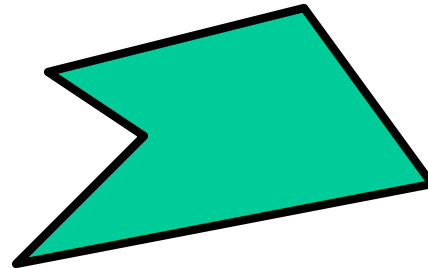
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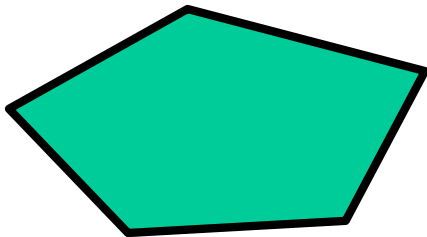
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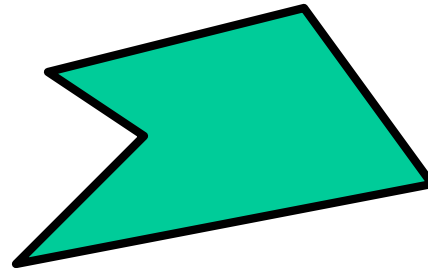
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← pentagons →

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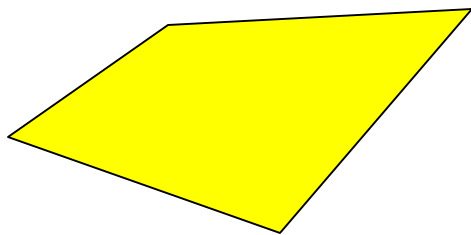
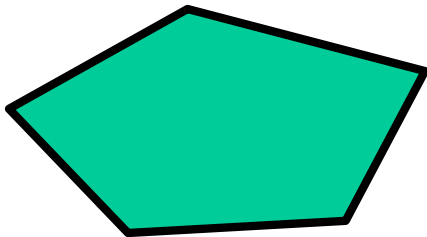
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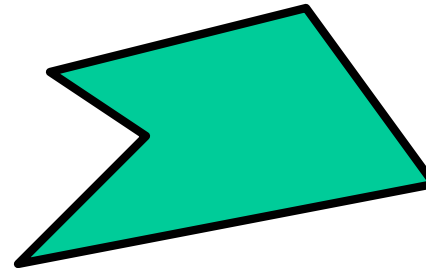
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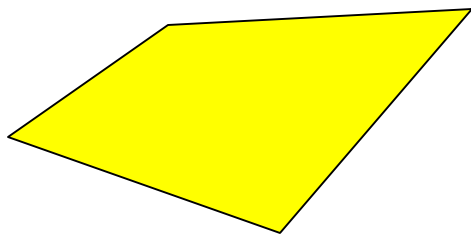
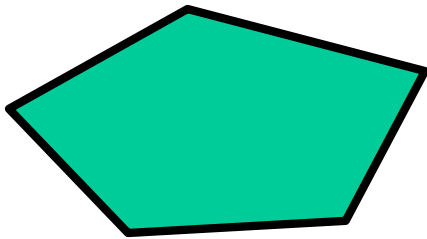
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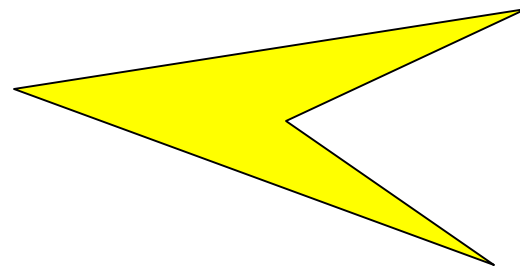
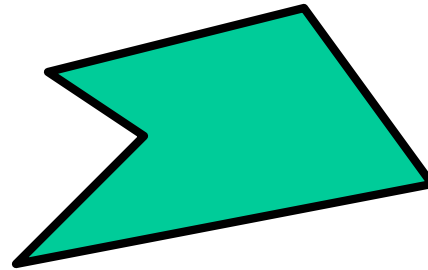
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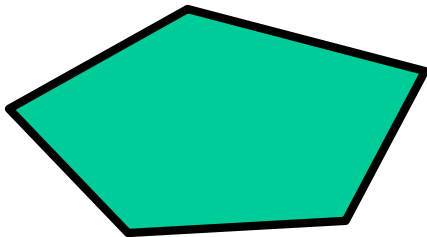
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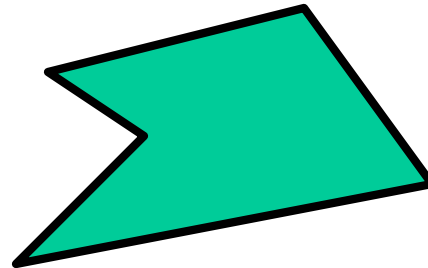
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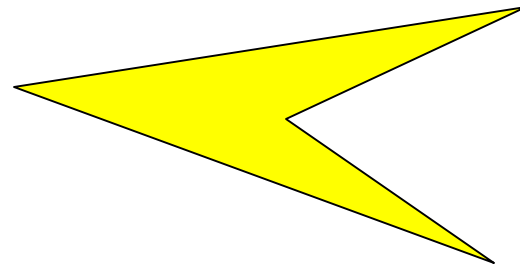
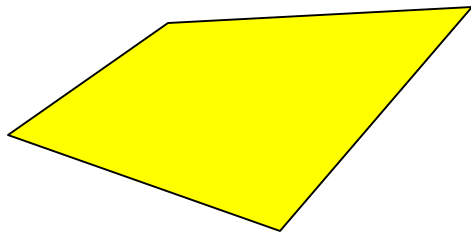


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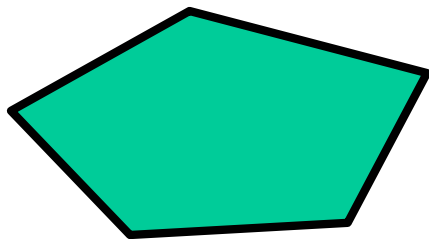
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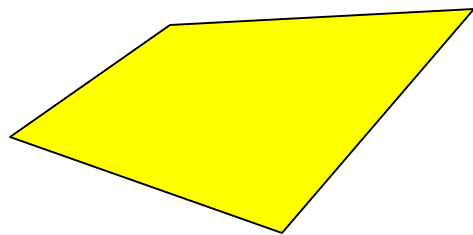
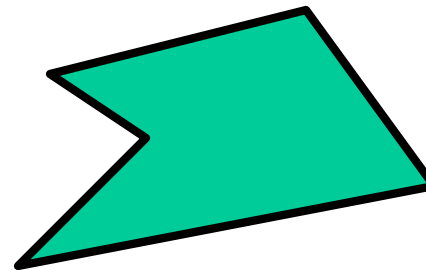
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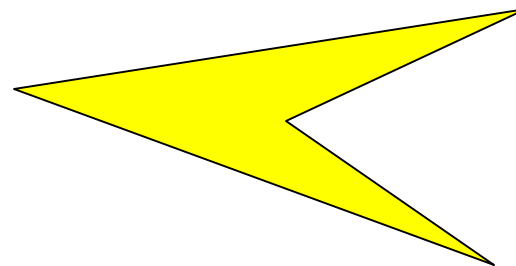
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A polygon is a **convex polygon** if and only if its **interior** is a **convex set** of points.

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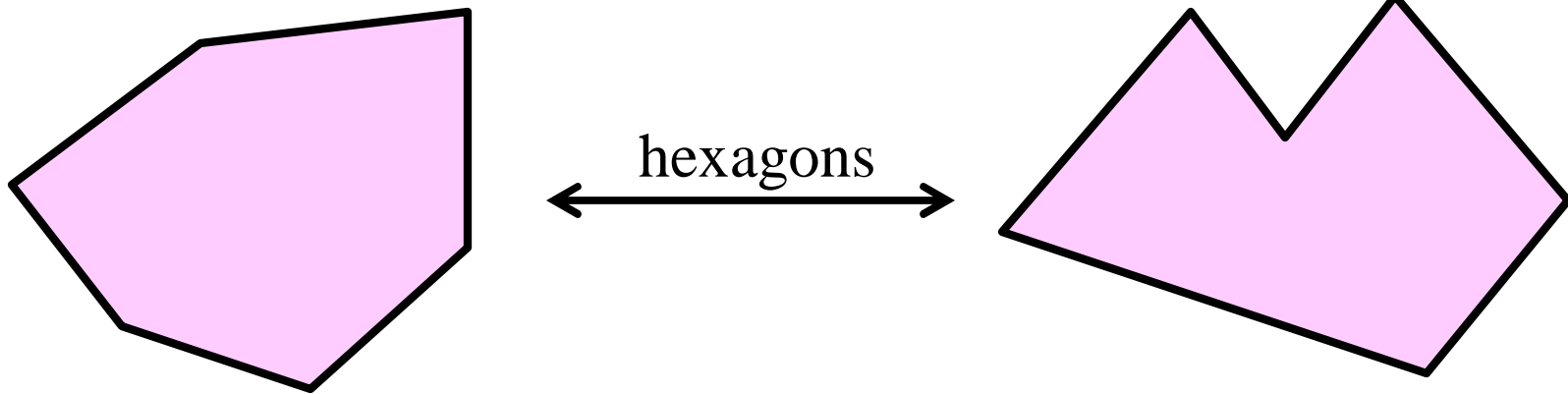
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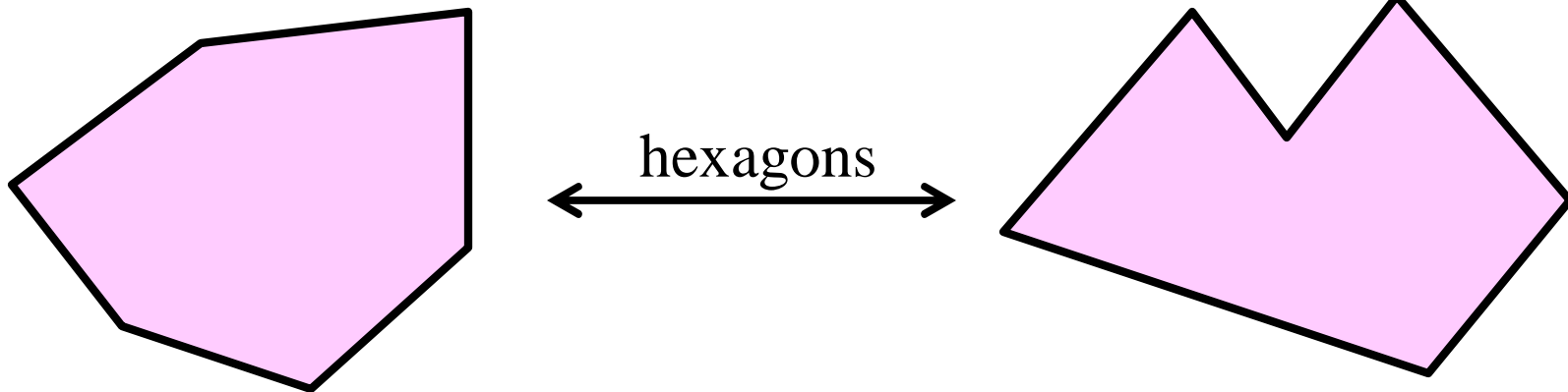


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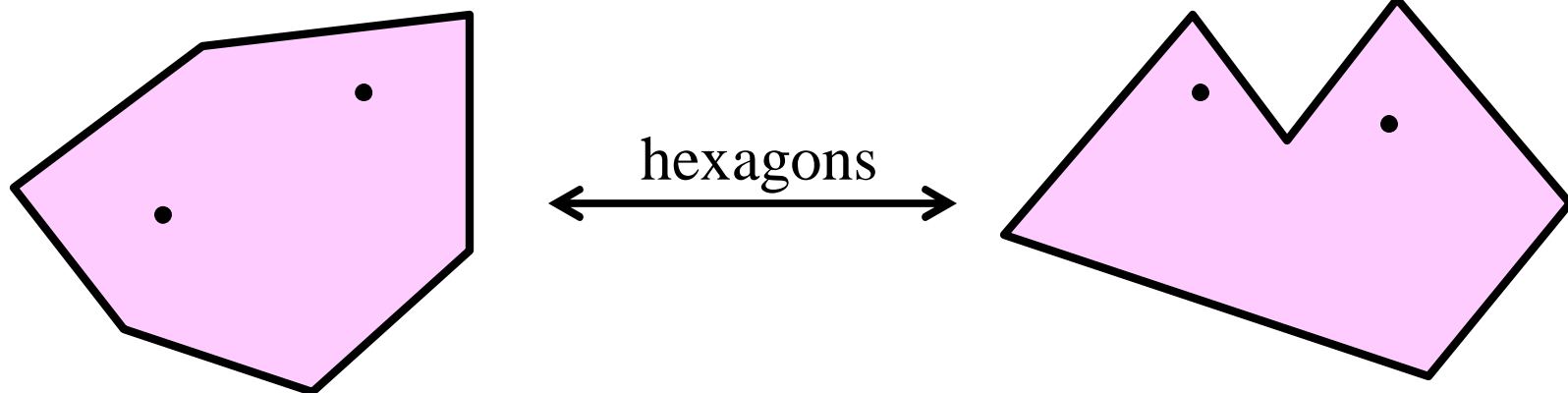


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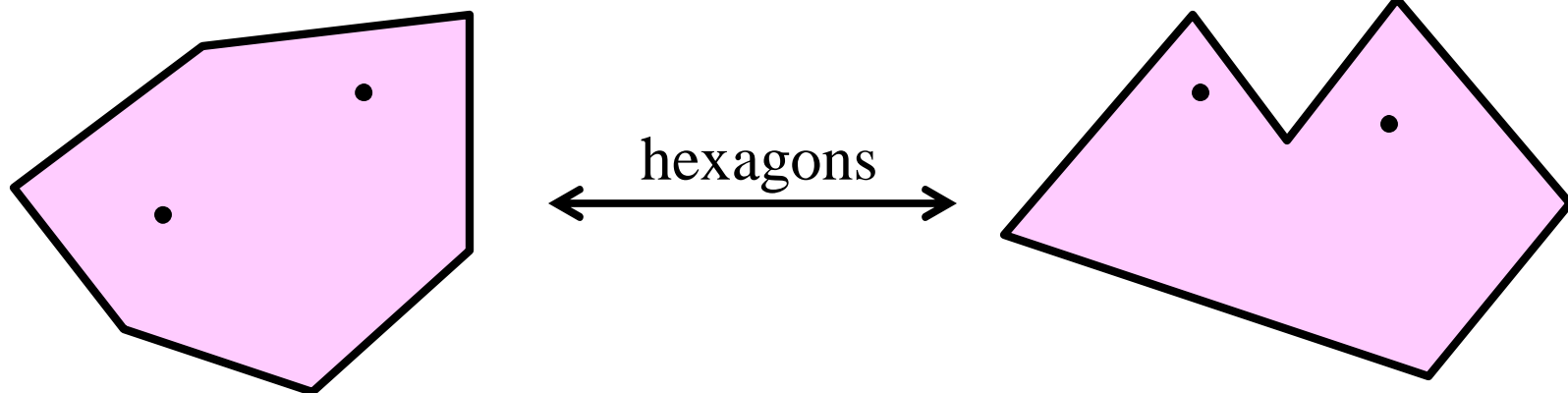


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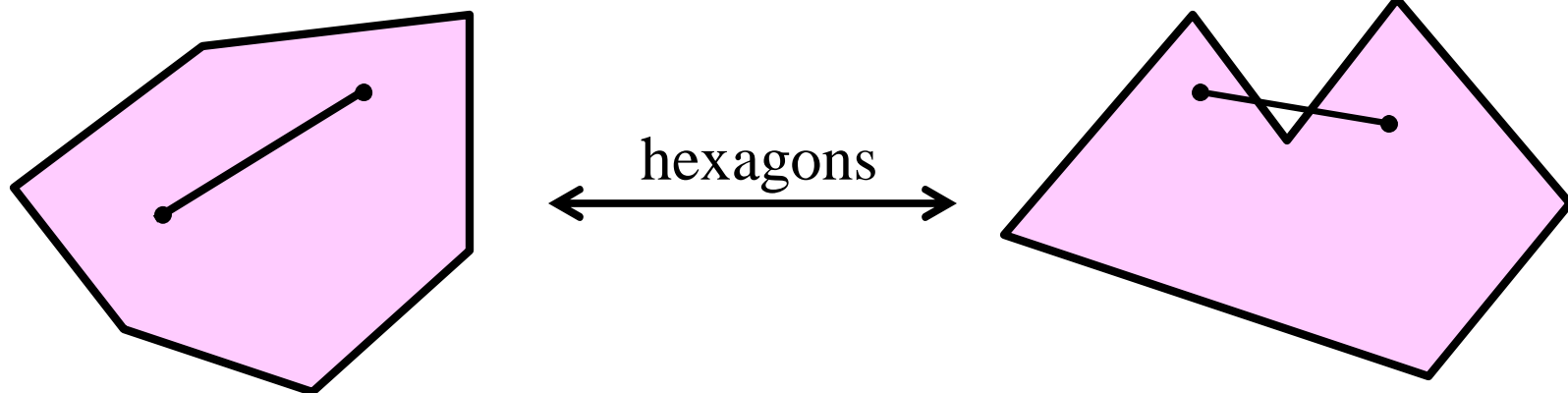


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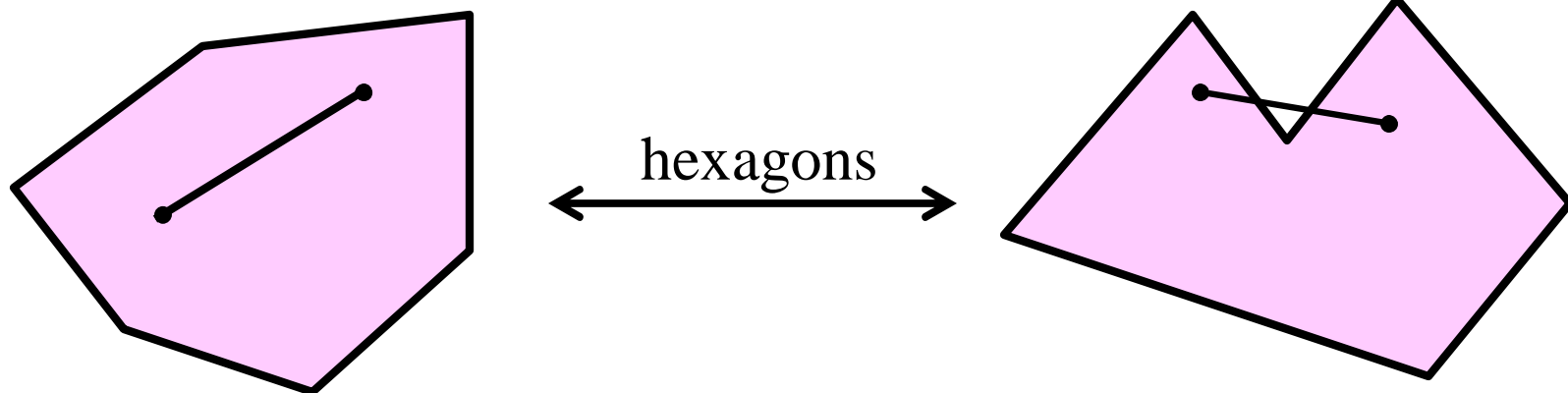


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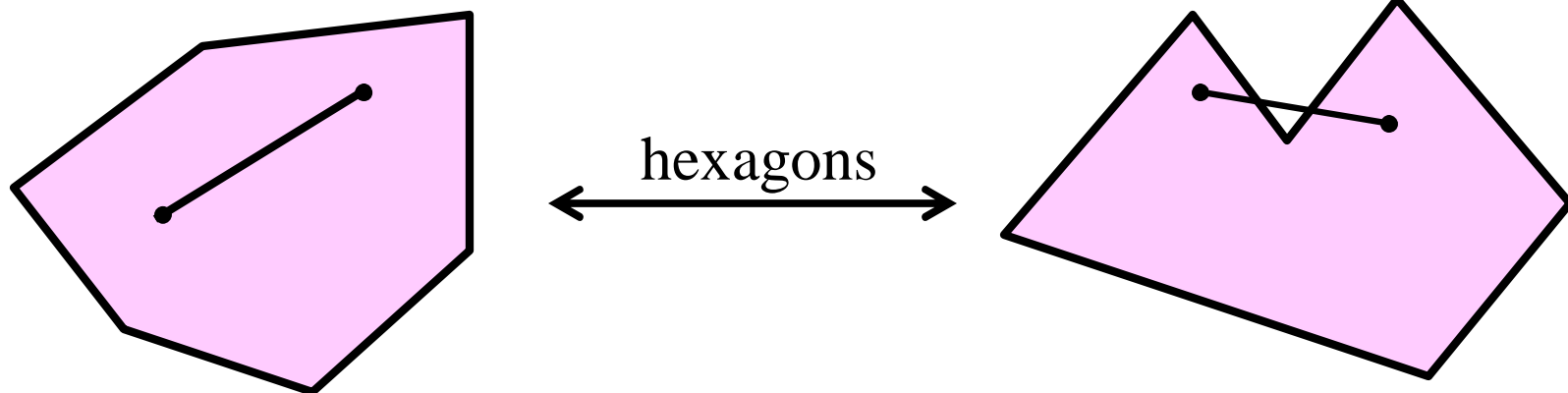


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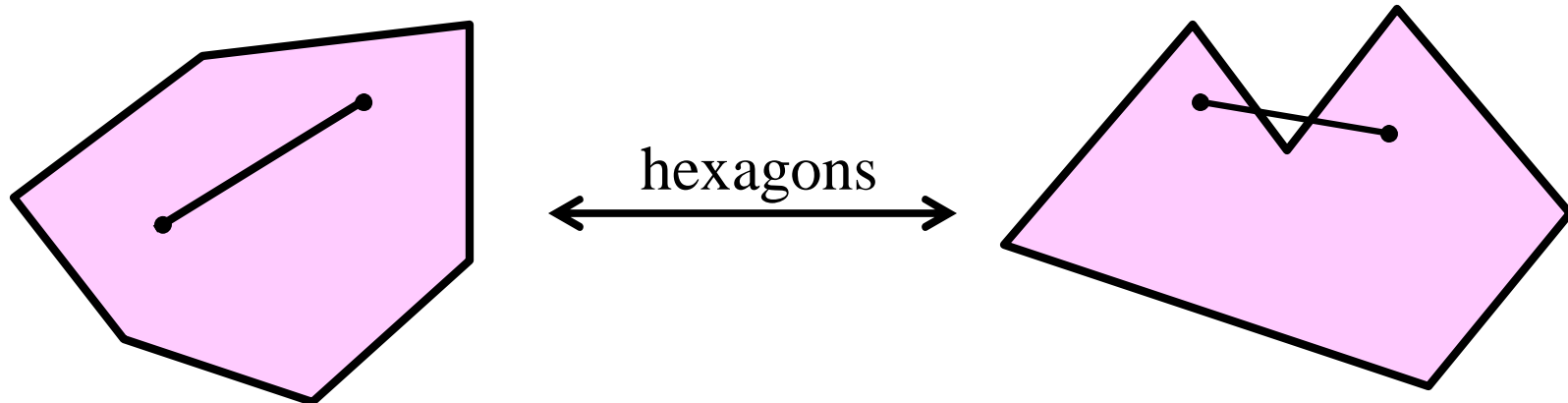


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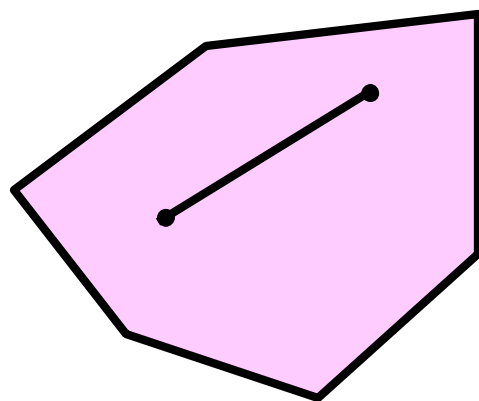


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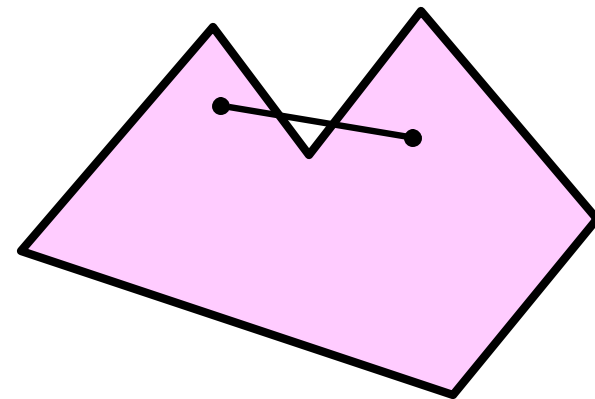
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← hexagons →



non-convex

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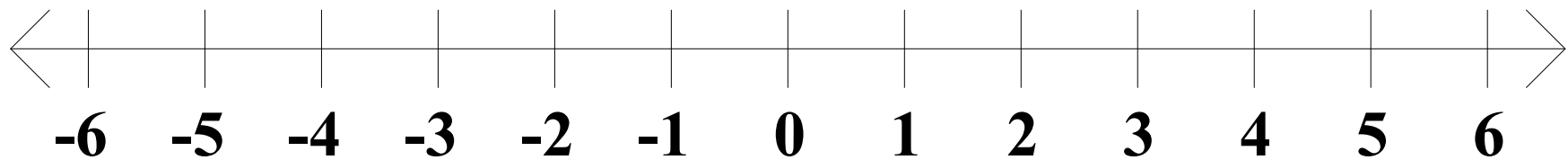
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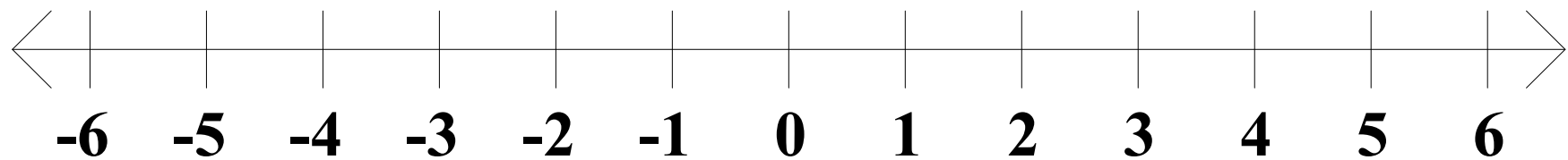
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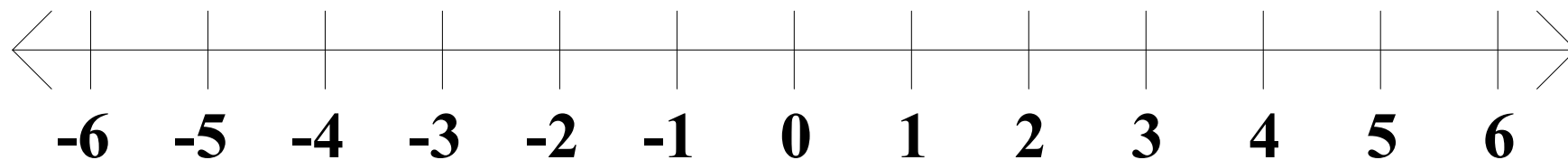


Basic inequalities define convex sets of real numbers, intervals.

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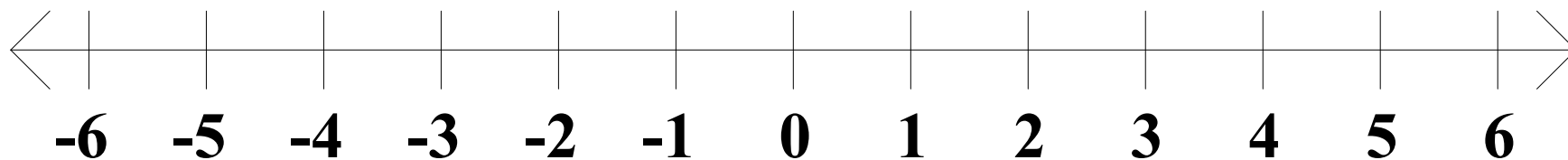
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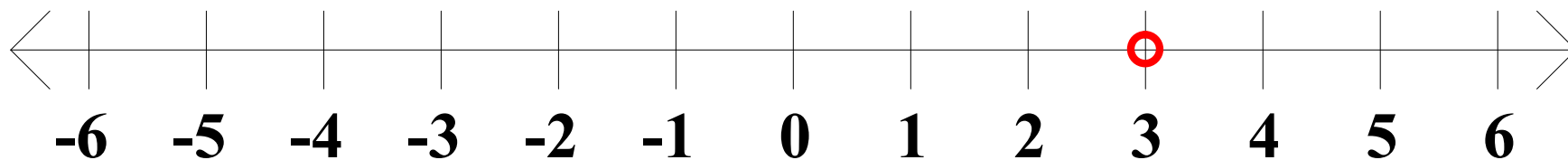
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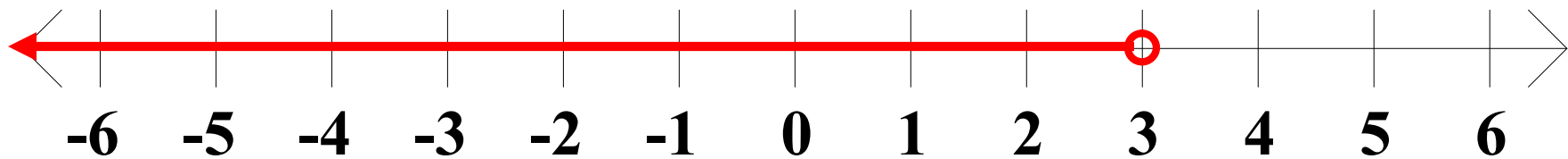
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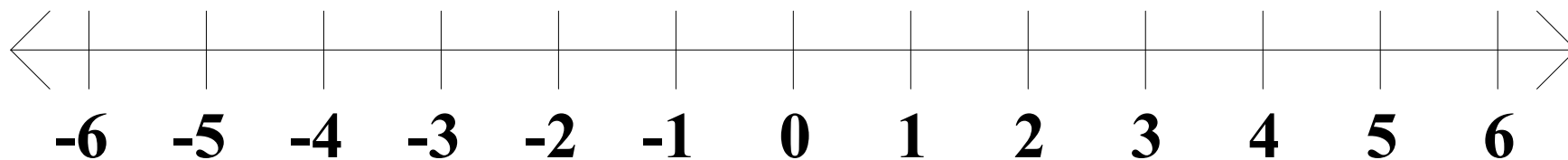
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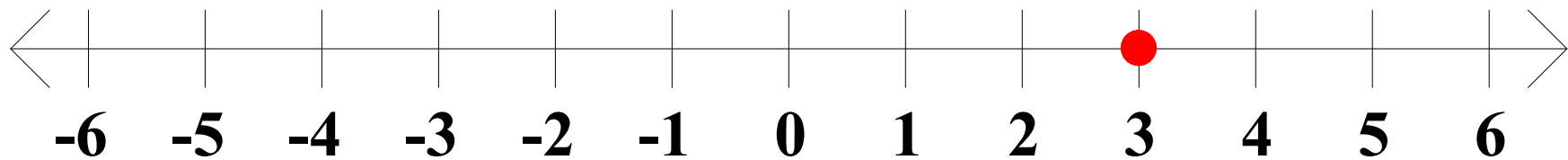
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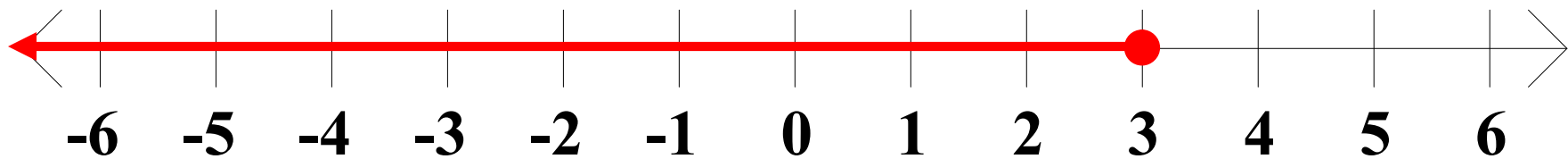
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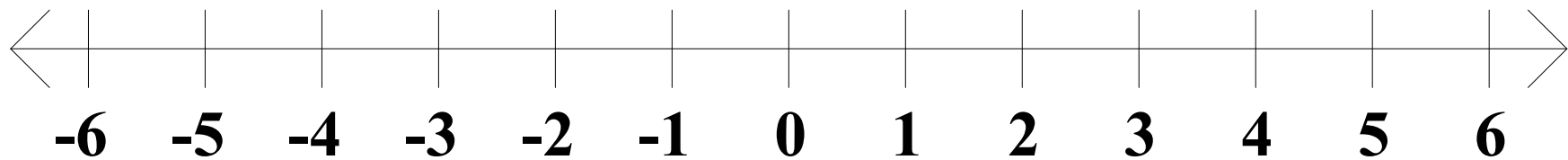
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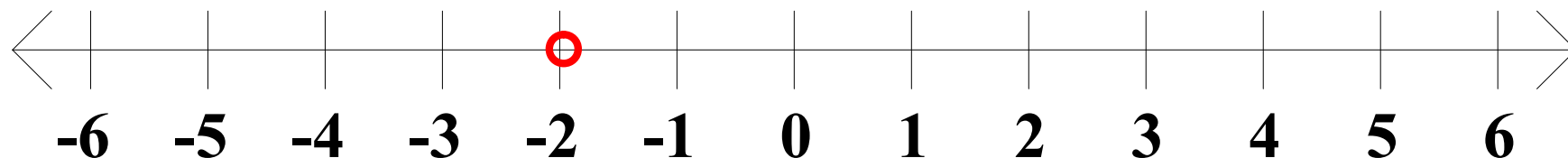
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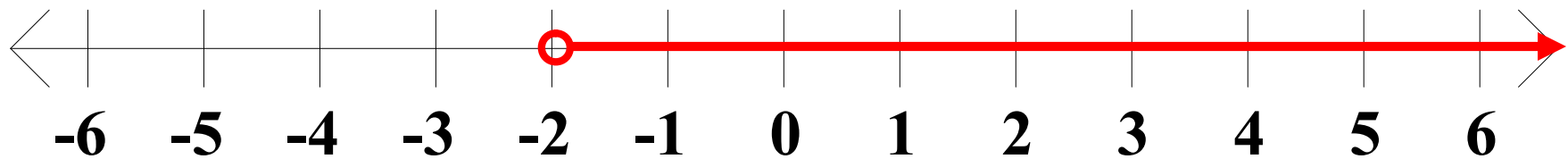
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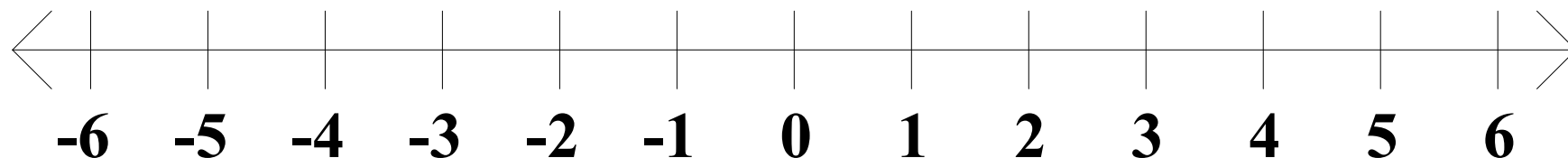
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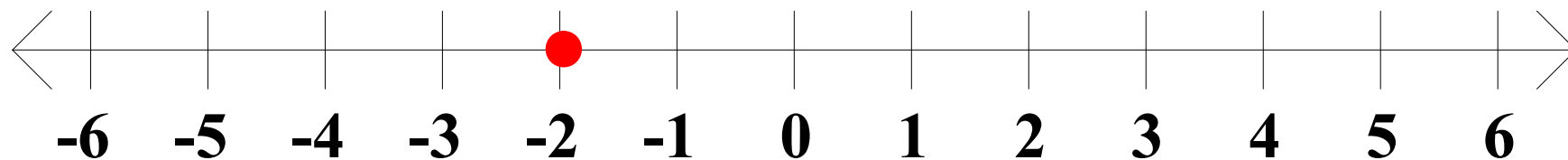
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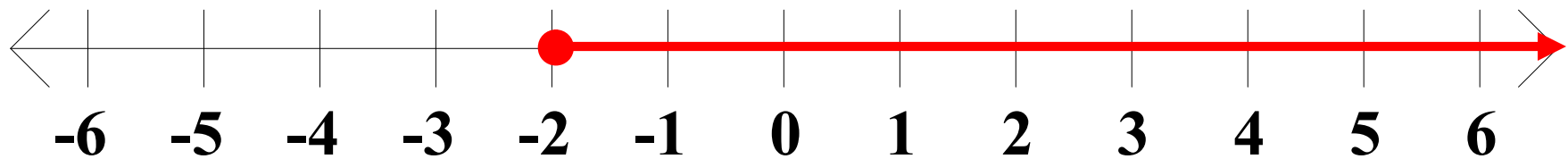
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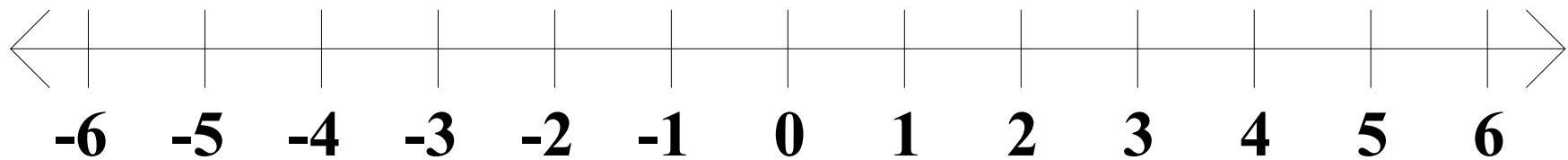
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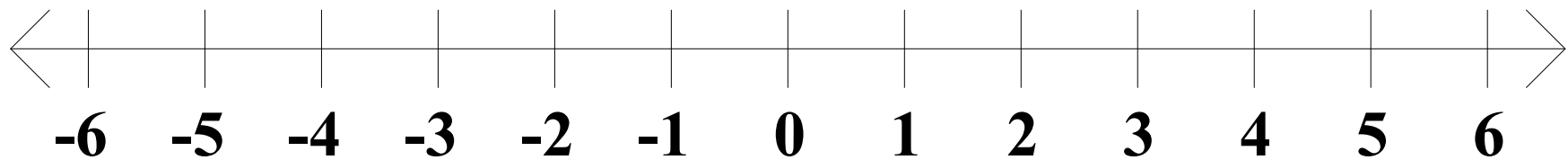


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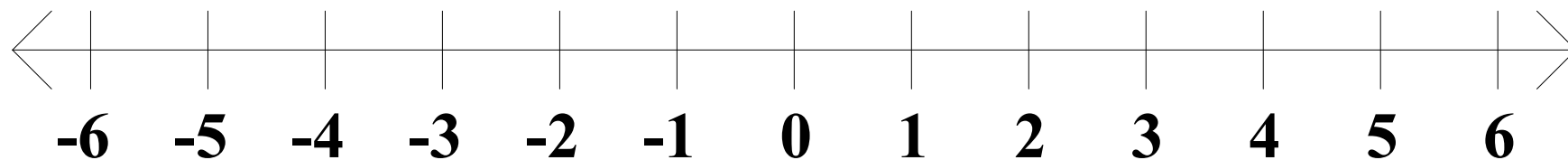
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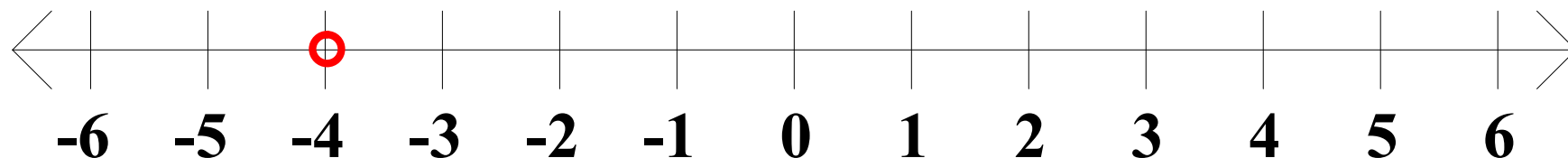
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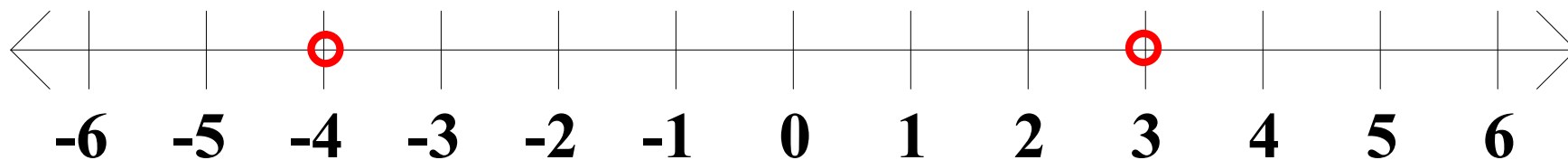
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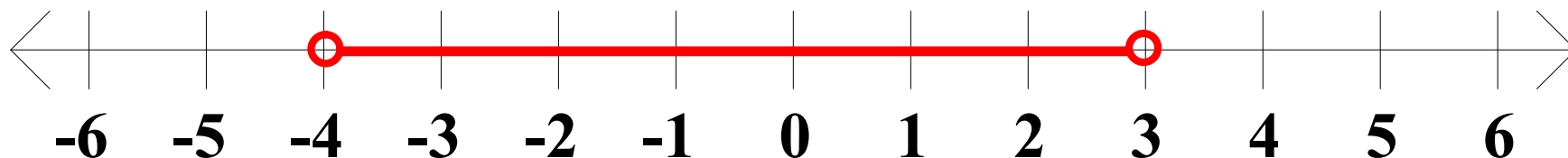
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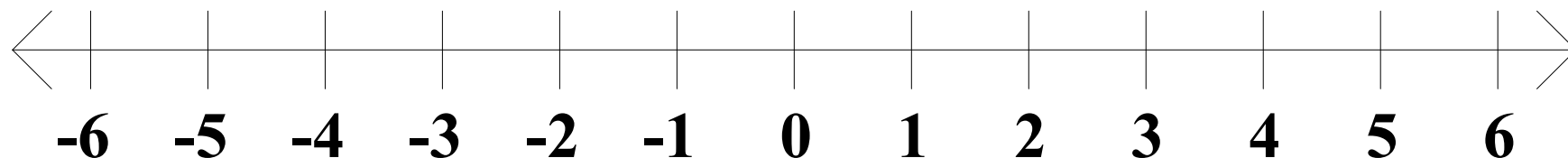
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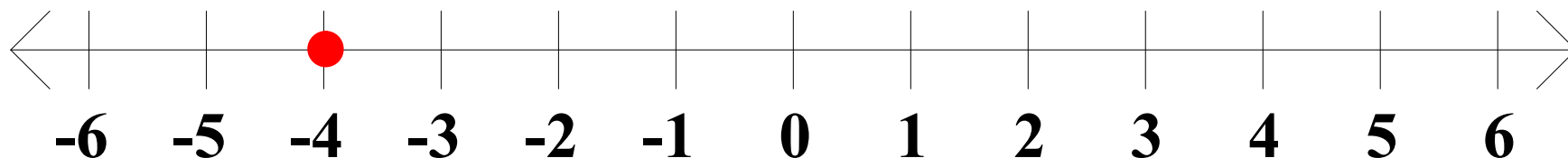
5. $-4 < x < 3$

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Algebra II Unit 1 Intervals and Interval Notation

Any **convex set** of real numbers is called an **interval**.

Now let's consider convex sets of real numbers.



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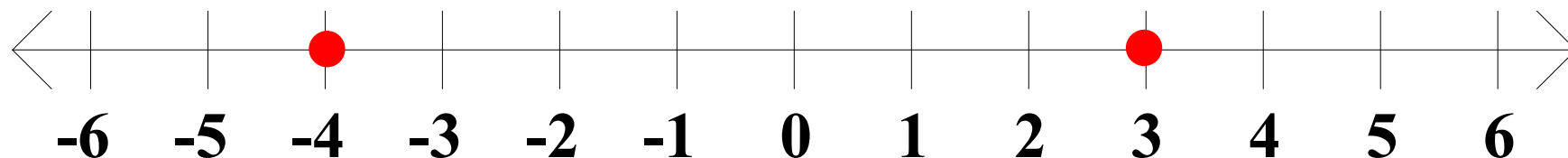
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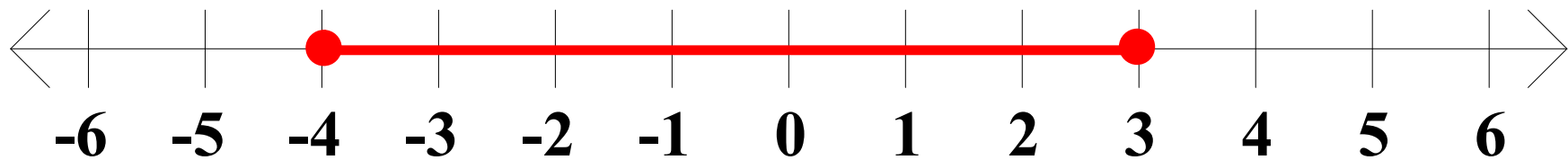
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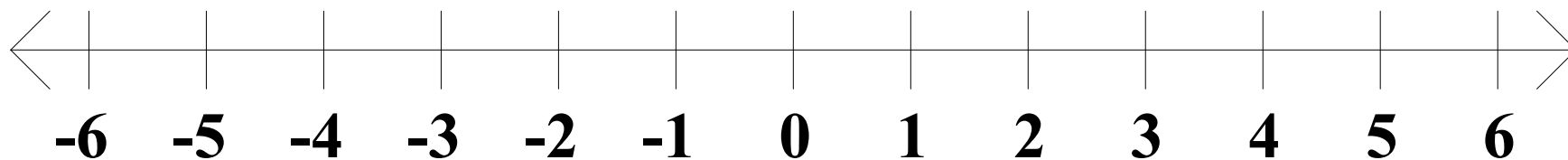
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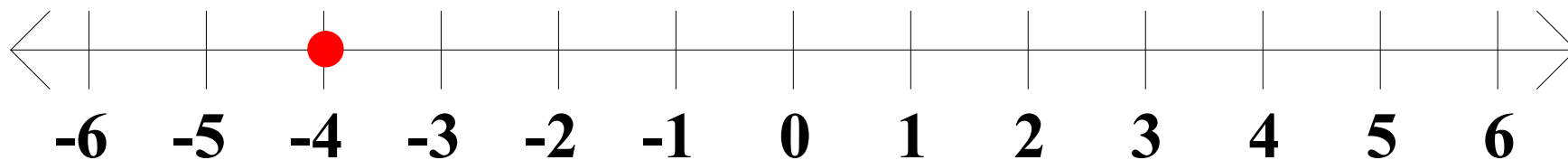
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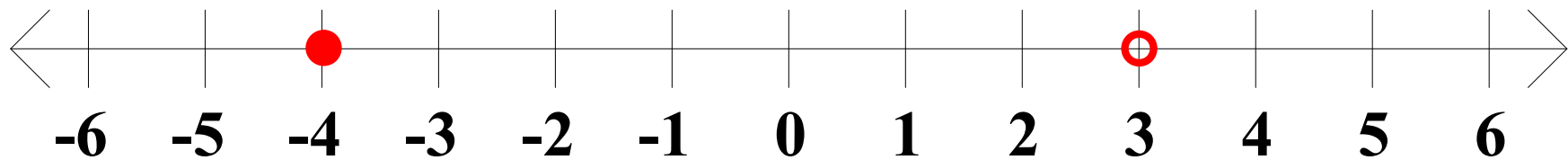
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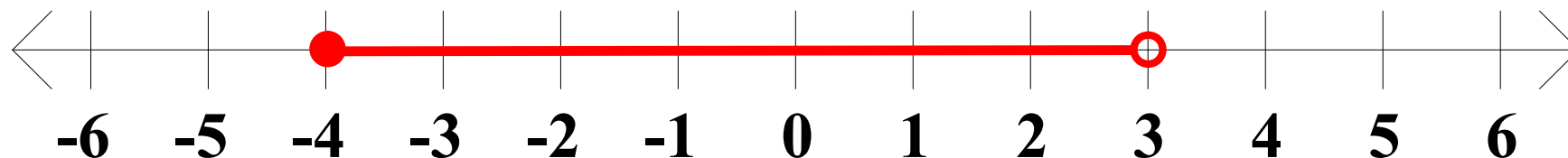
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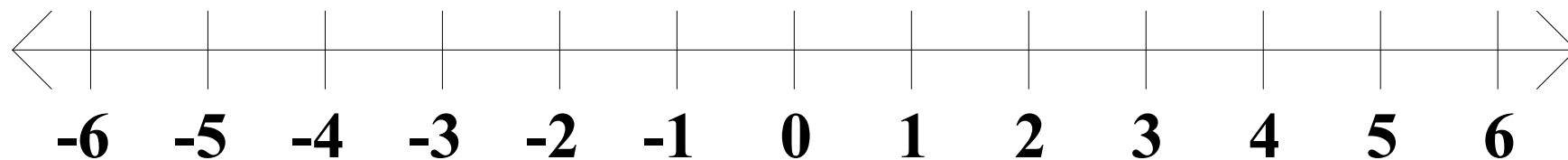
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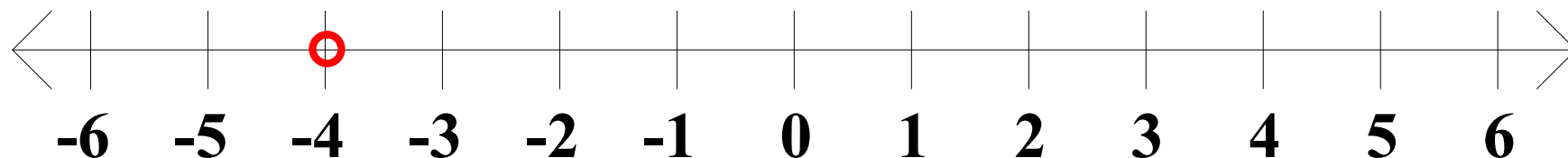
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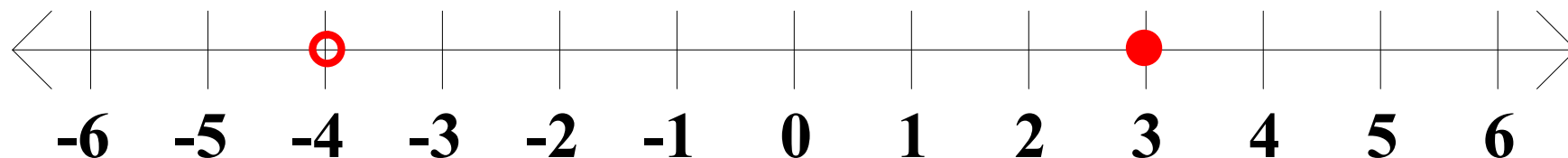
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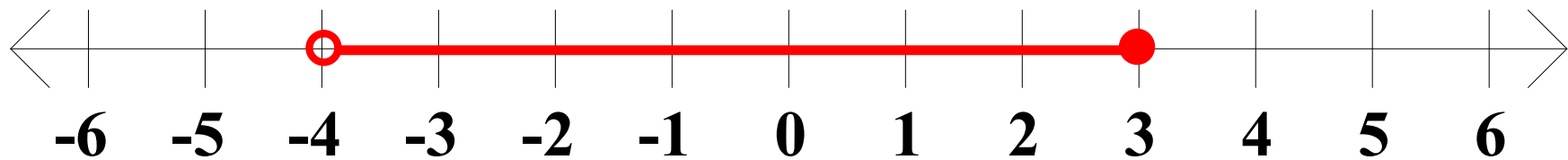
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Algebra II Unit 1 Intervals and Interval Notation

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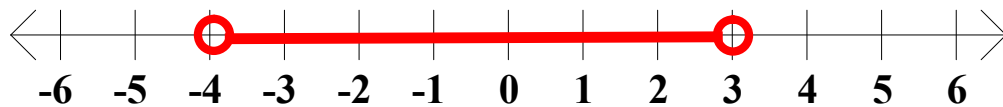
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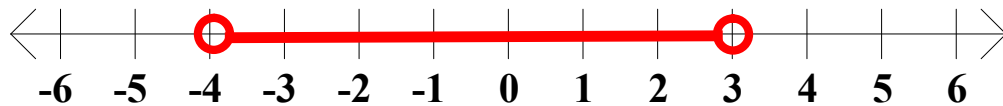
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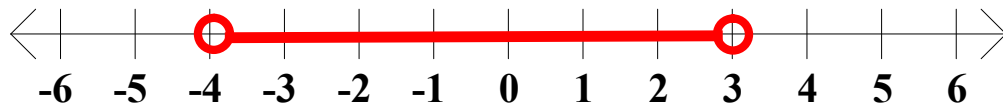
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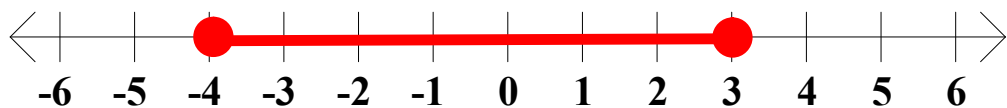
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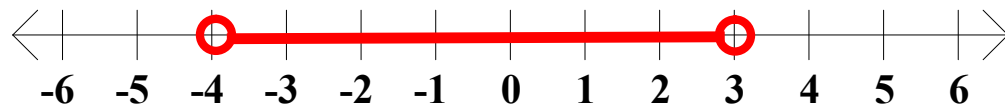
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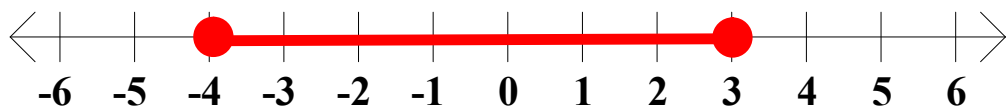
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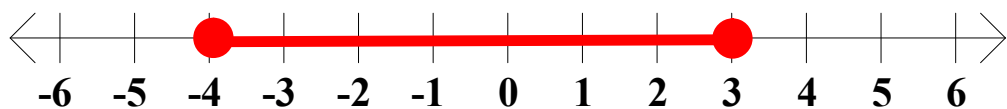
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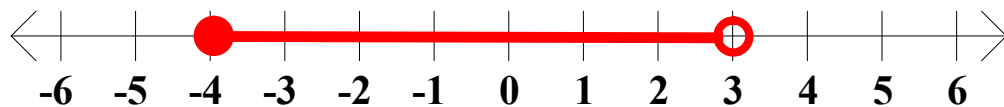
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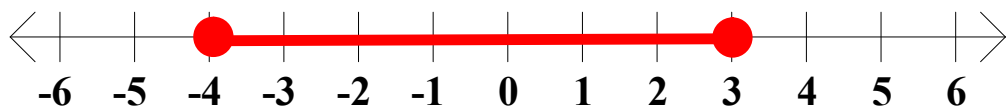
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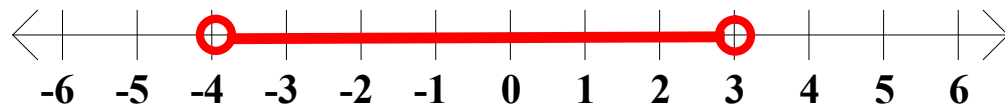
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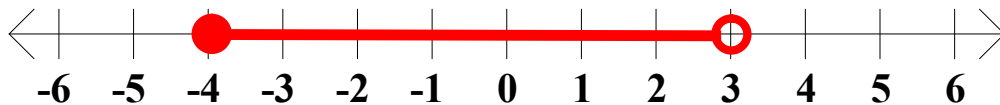
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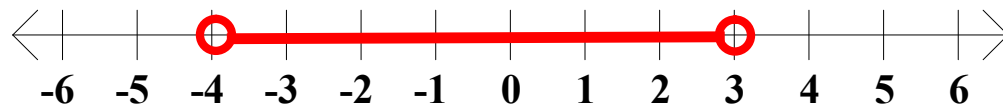


These are examples
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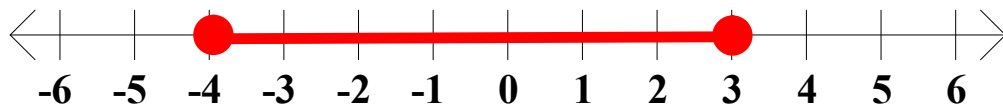
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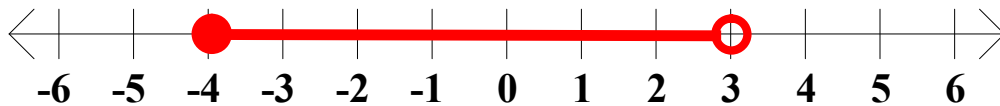
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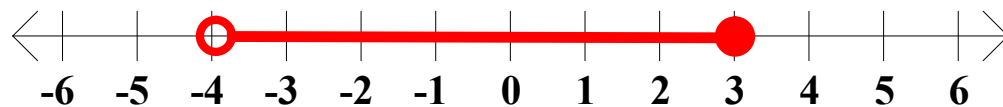
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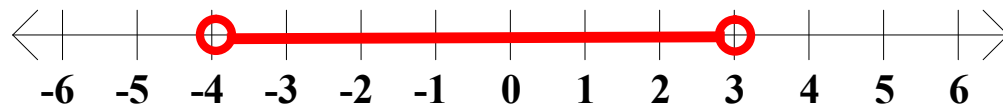
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Bounded intervals have
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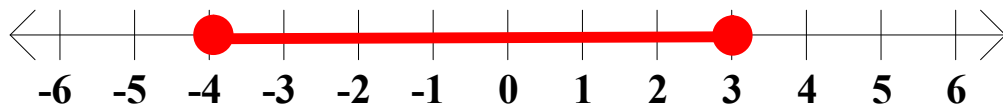
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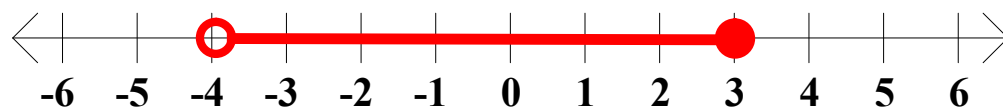
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Unbounded intervals have less than two endpoints.

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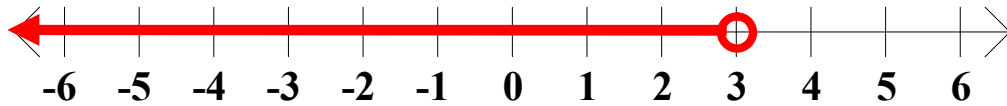
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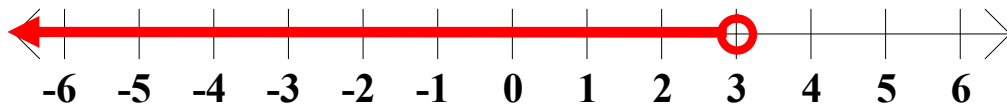


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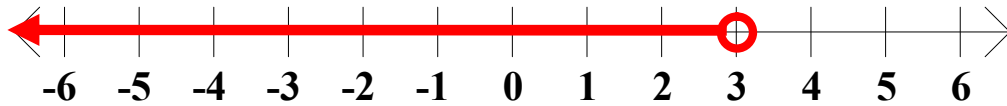


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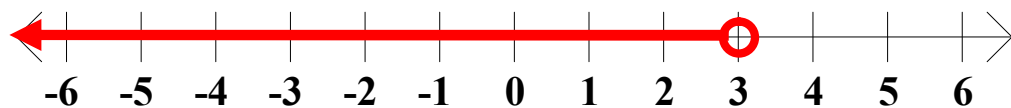


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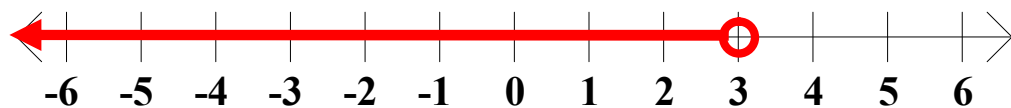


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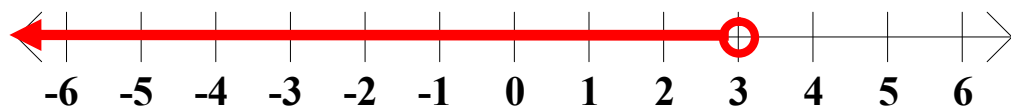


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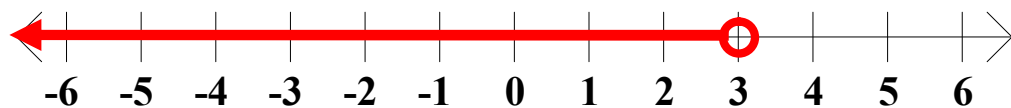


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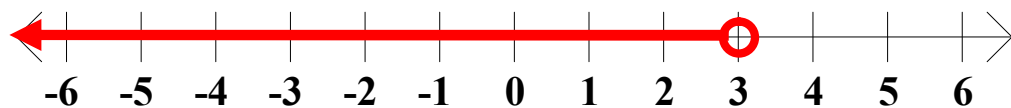


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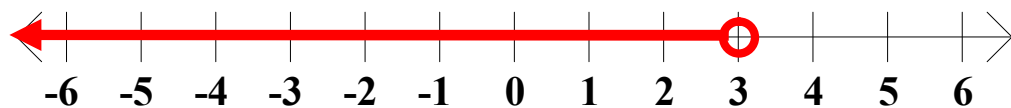
7. $x > -4$

Unbounded intervals have less than two endpoints.

Algebra II Unit 1 Intervals and Interval Notation

Interval Notation: Intervals can be defined using special notation.
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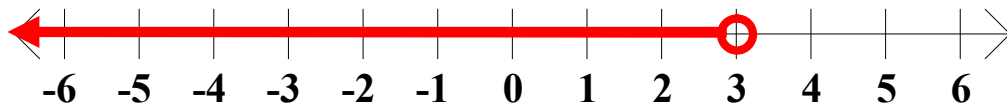


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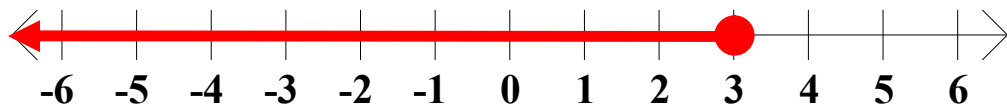
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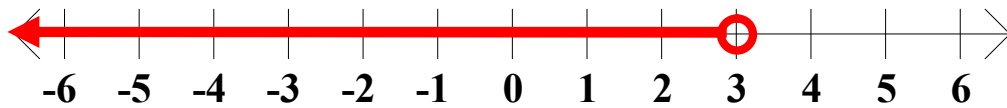


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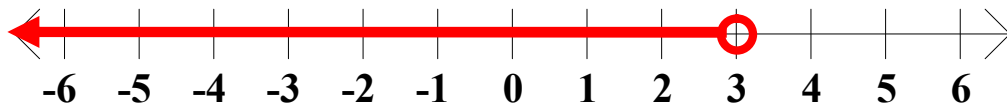


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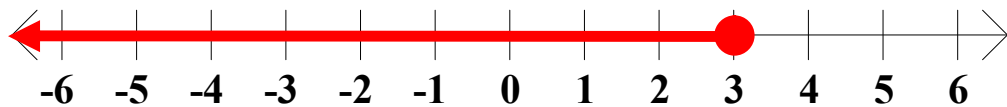
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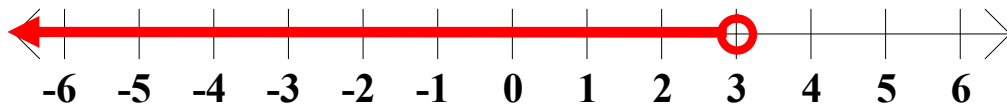


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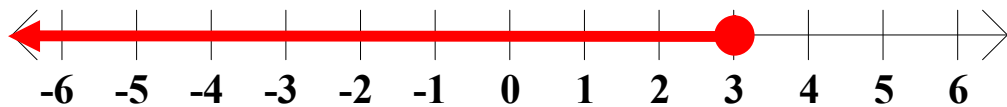
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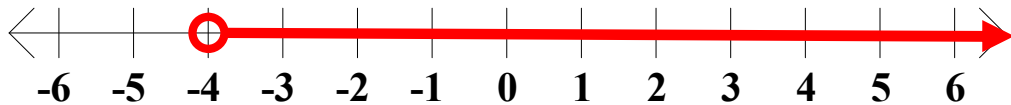
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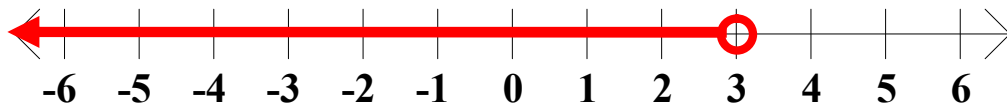


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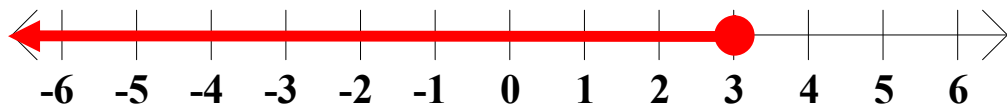
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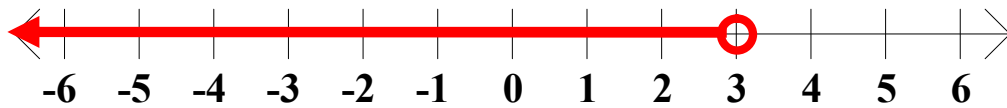
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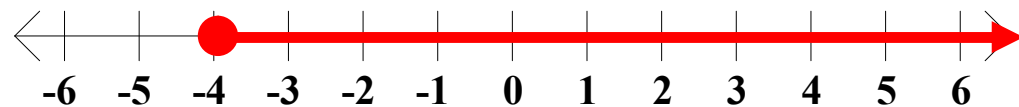
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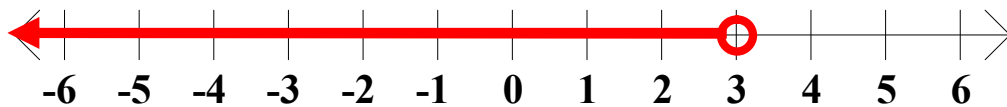


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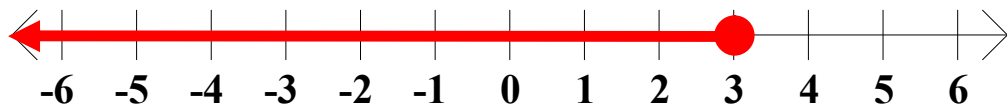
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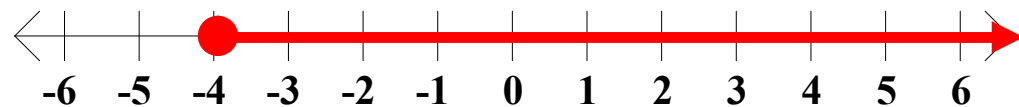
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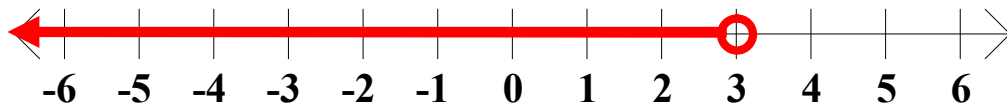


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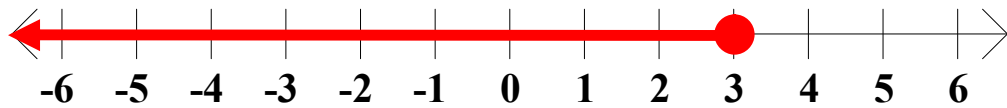
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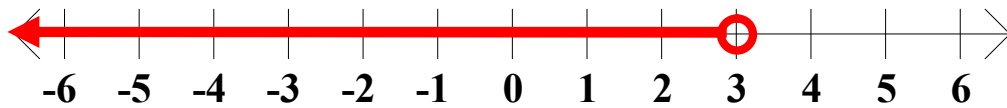


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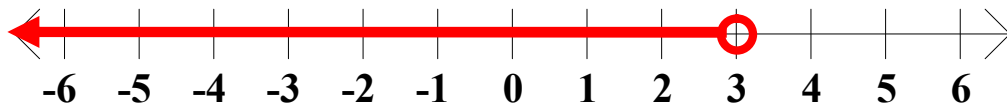


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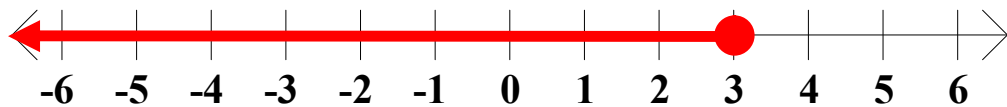
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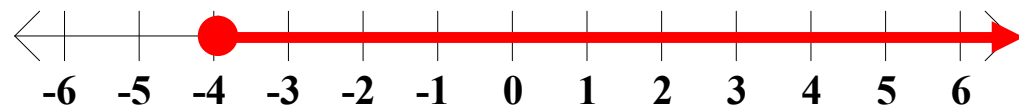
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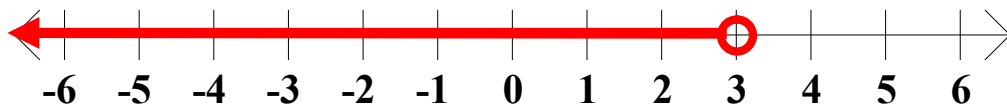


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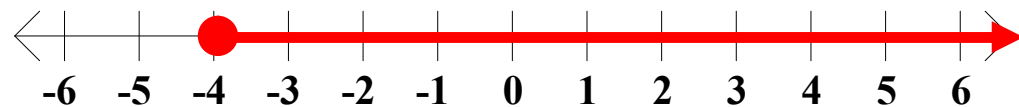
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Algebra II Unit 1 Intervals and Interval Notation

Interval Notation: Intervals can be defined using special notation.

Algebra II Unit 1 Intervals and Interval Notation

Interval Notation: Intervals can be defined using special notation. There are three other intervals to consider.

Algebra II Unit 1 Intervals and Interval Notation

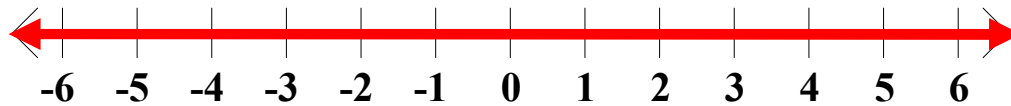
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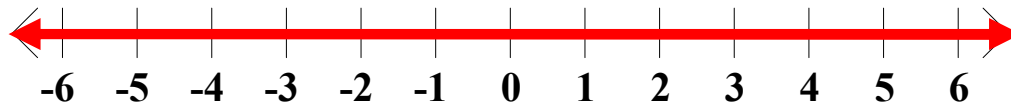


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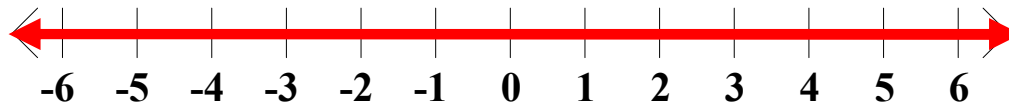


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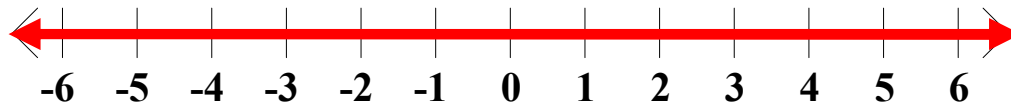


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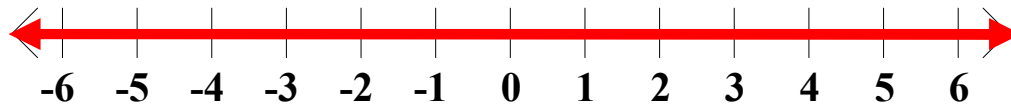


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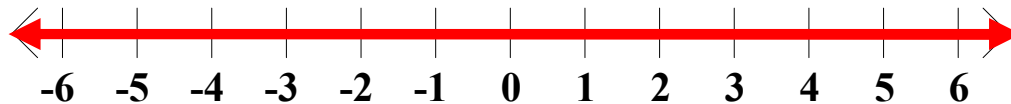


Algebra II Unit 1 Intervals and Interval Notation

Interval Notation: Intervals can be defined using special notation. There are three other intervals to consider.

1. The entire set of real numbers is an unbounded interval.

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2. A set containing exactly one number is an interval.

Algebra II Unit 1 Intervals and Interval Notation

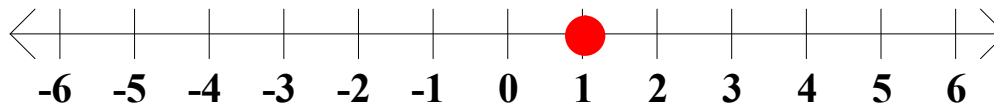
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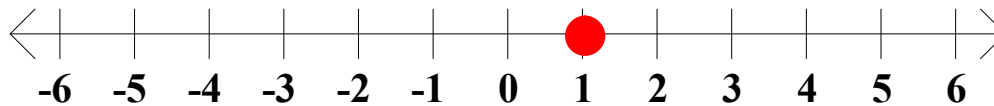
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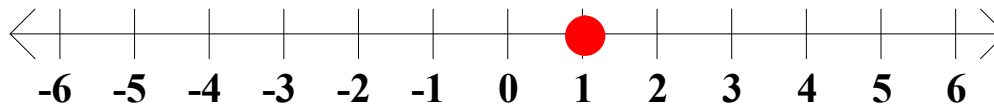
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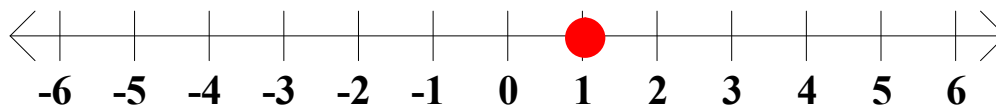
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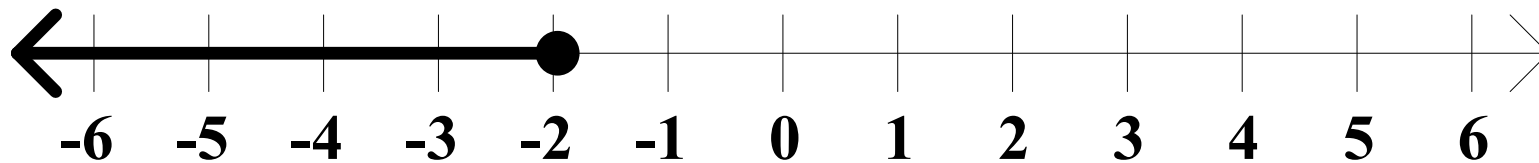


Algebra II Class Worksheet #2 Unit 1

For each of the following graphs, (a) write an appropriate inequality and (b) represent the graph using interval notation.

1. (a) _____

(b) _____

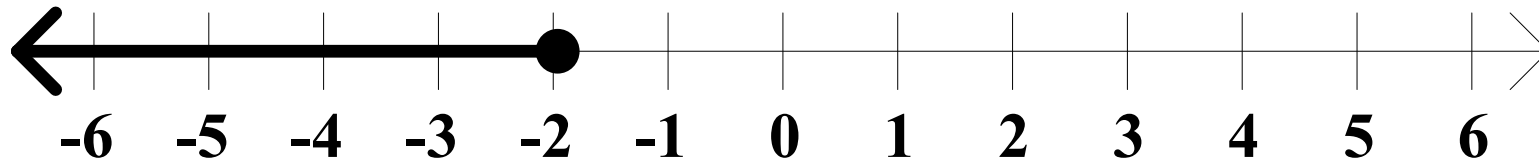


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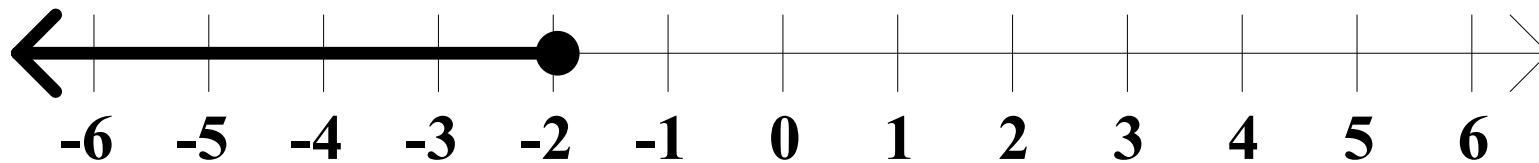


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1. (a) $x \leq$ _____

(b) _____

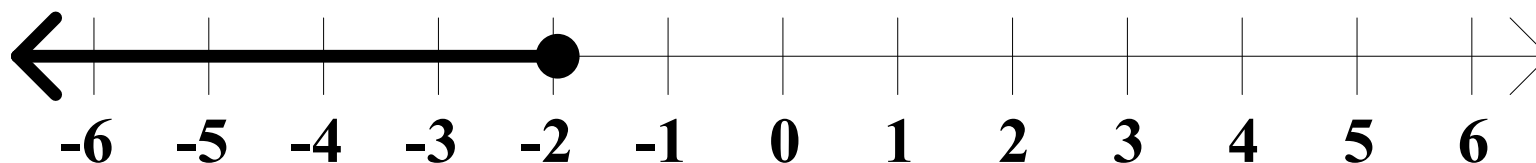


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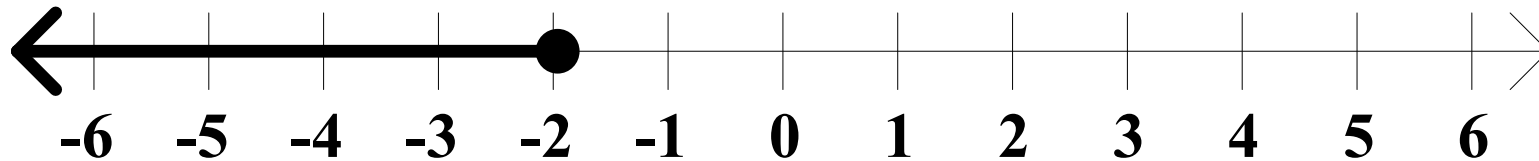


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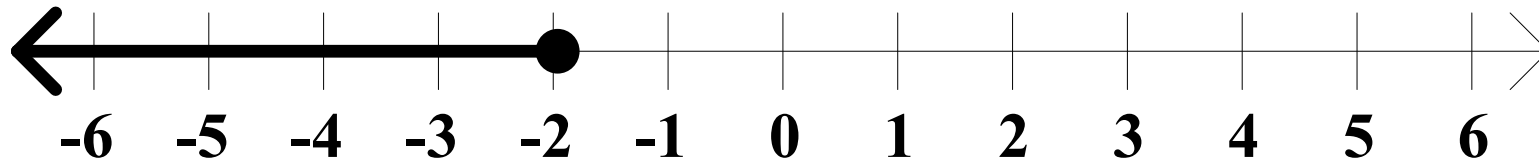


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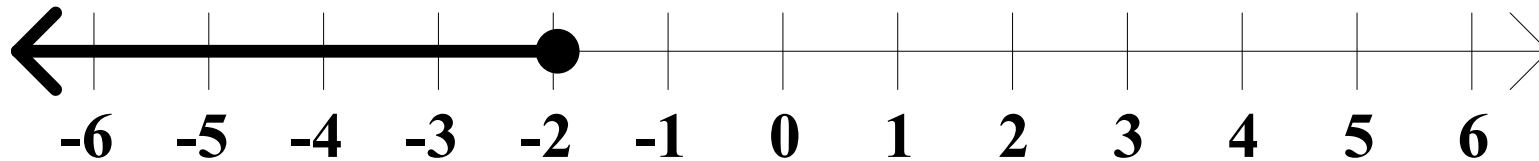


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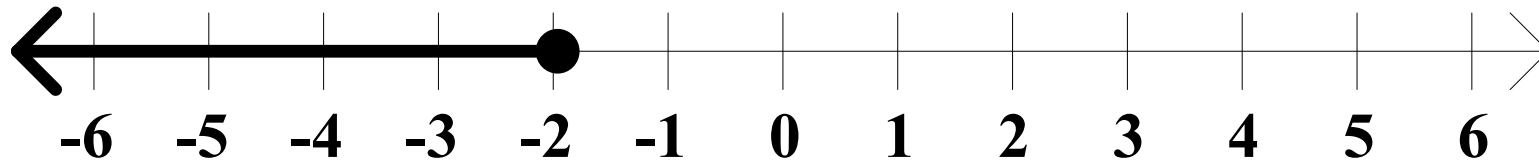


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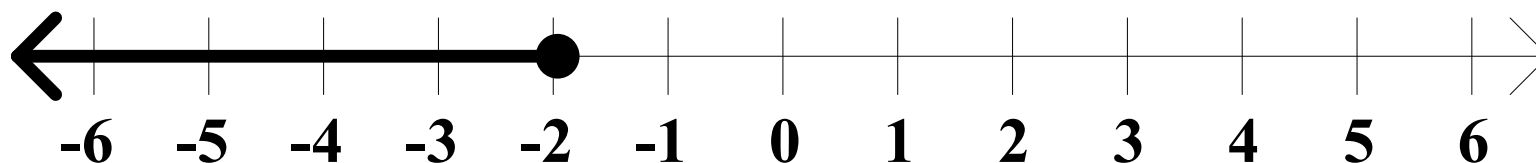


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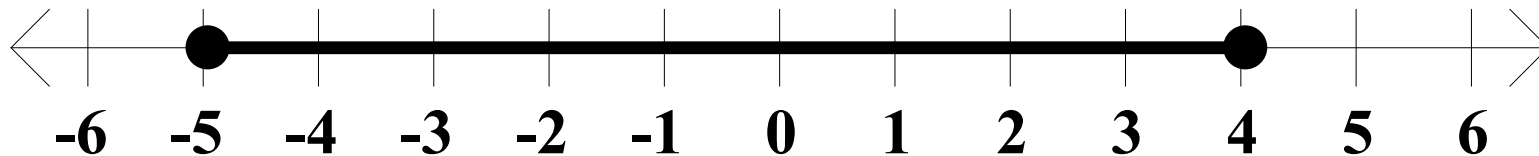


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For each of the following graphs, (a) write an appropriate inequality and (b) represent the graph using interval notation.

2. (a) _____

(b) _____

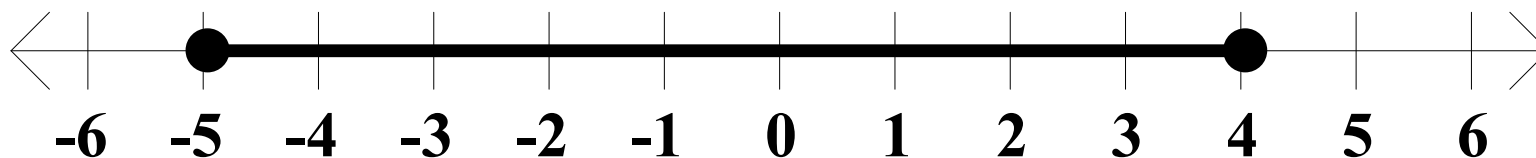


Algebra II Class Worksheet #2 Unit 1

For each of the following graphs, (a) write an appropriate inequality and (b) represent the graph using interval notation.

2. (a) -5

(b)

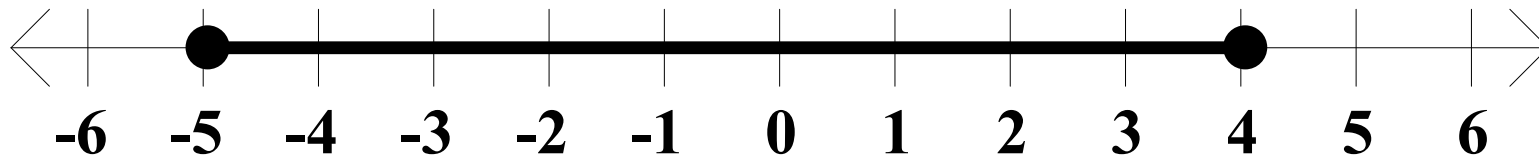


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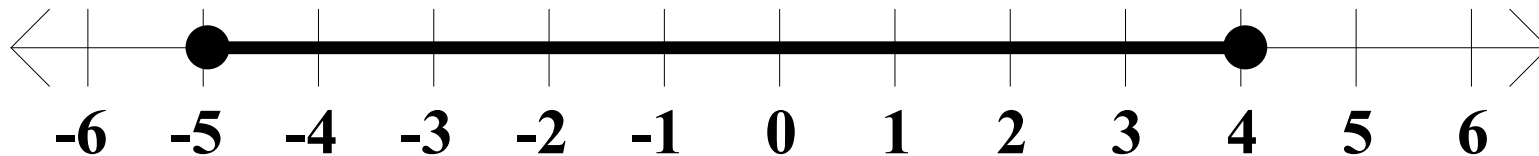


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2. (a) $-5 \leq x$

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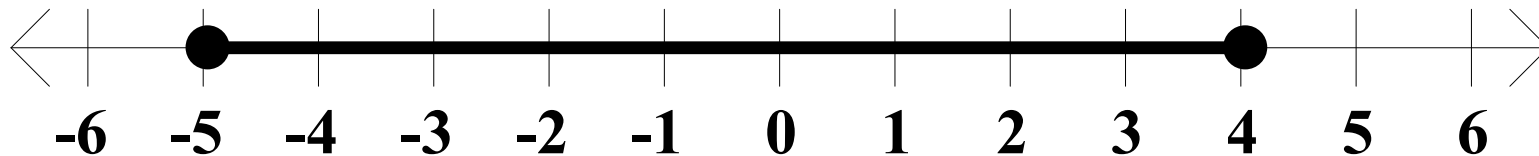


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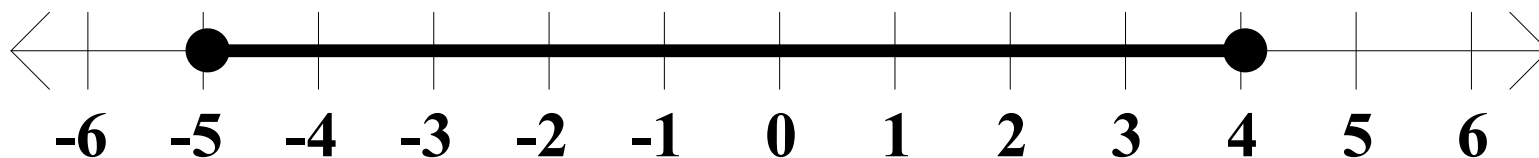


Algebra II Class Worksheet #2 Unit 1

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2. (a) $-5 \leq x \leq 4$

(b) _____

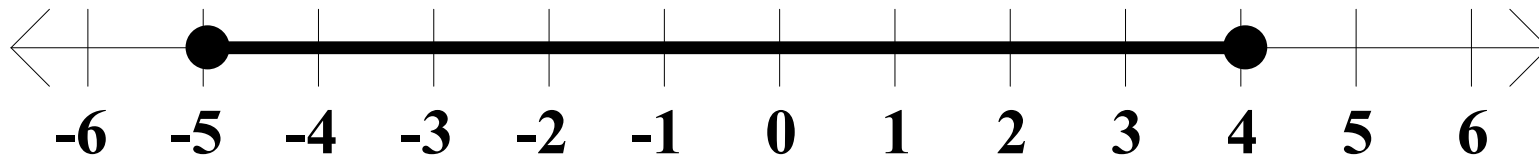


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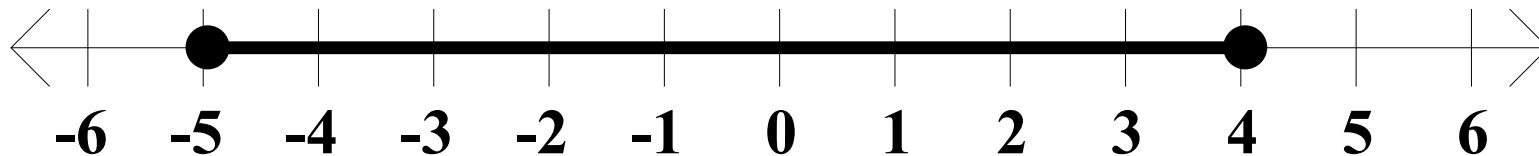


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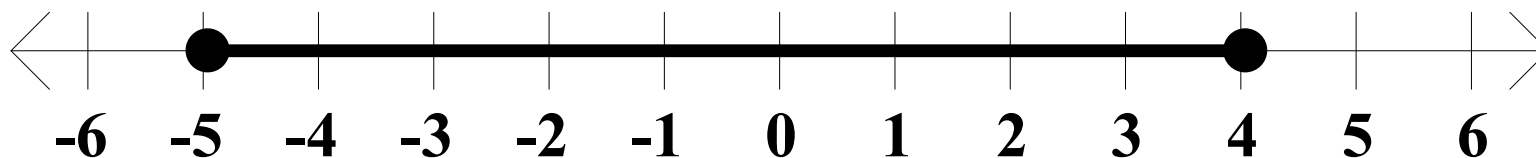


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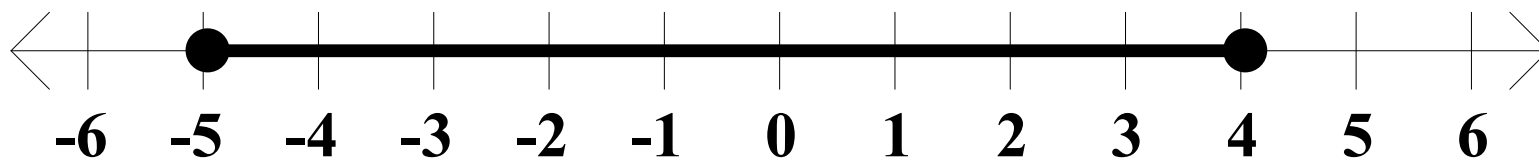


Algebra II Class Worksheet #2 Unit 1

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2. (a) $-5 \leq x \leq 4$

(b) $[-5, 4]$

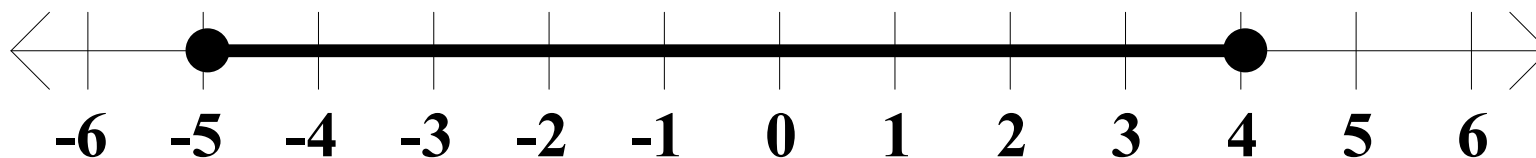


Algebra II Class Worksheet #2 Unit 1

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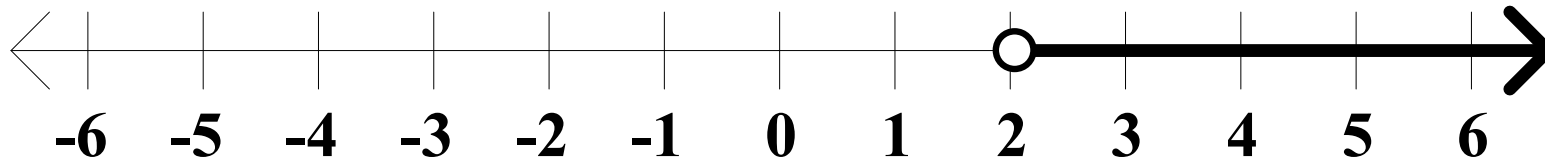


Algebra II Class Worksheet #2 Unit 1

For each of the following graphs, (a) write an appropriate inequality and (b) represent the graph using interval notation.

3. (a) _____

(b) _____

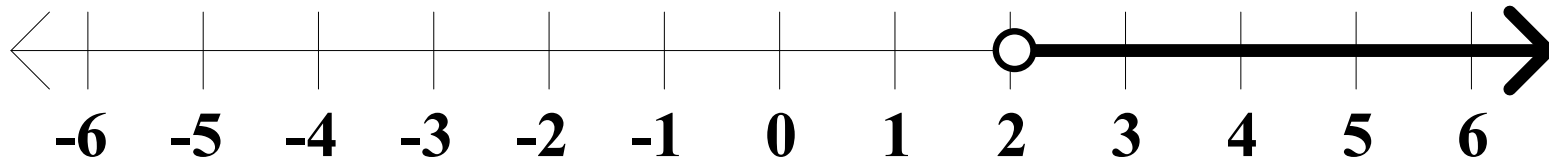


Algebra II Class Worksheet #2 Unit 1

For each of the following graphs, (a) write an appropriate inequality and (b) represent the graph using interval notation.

3. (a) _____ **X**

(b) _____

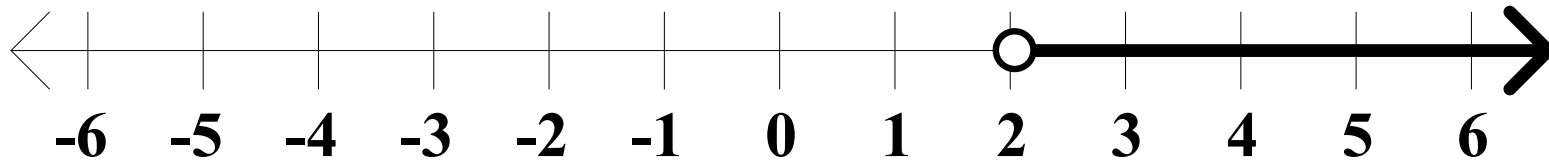


Algebra II Class Worksheet #2 Unit 1

For each of the following graphs, (a) write an appropriate inequality and (b) represent the graph using interval notation.

3. (a) $x >$ _____

(b) _____

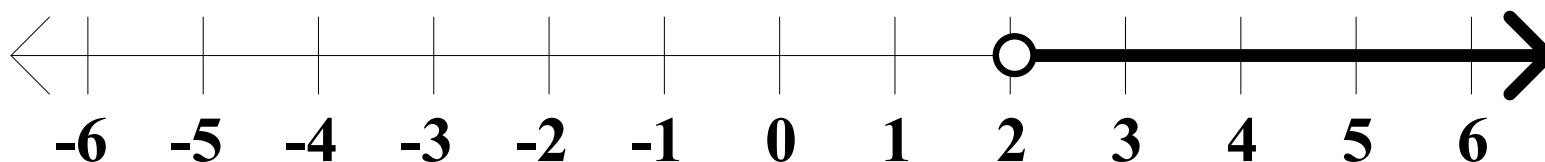


Algebra II Class Worksheet #2 Unit 1

For each of the following graphs, (a) write an appropriate inequality and (b) represent the graph using interval notation.

3. (a) $x > 2$ _____

(b) _____

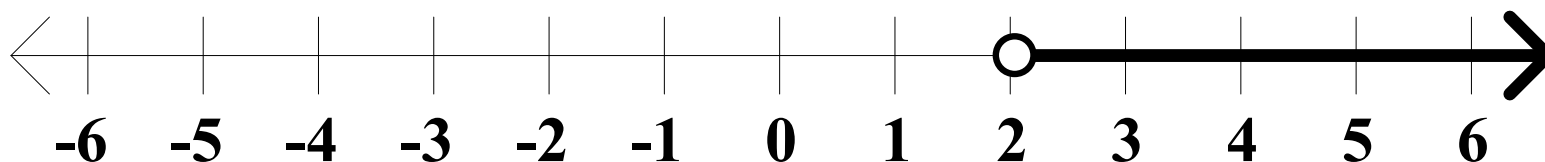


Algebra II Class Worksheet #2 Unit 1

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(b) $($

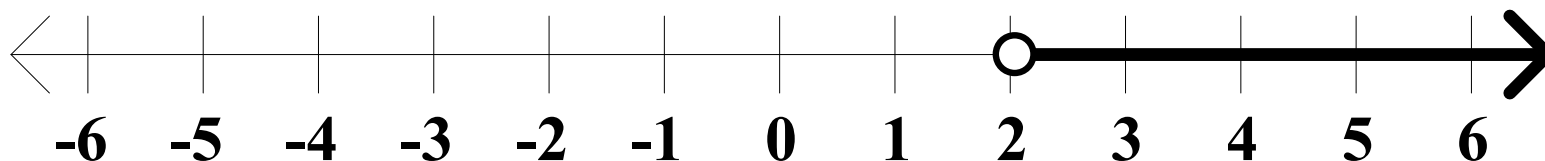


Algebra II Class Worksheet #2 Unit 1

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3. (a) $x > 2$

(b) (2

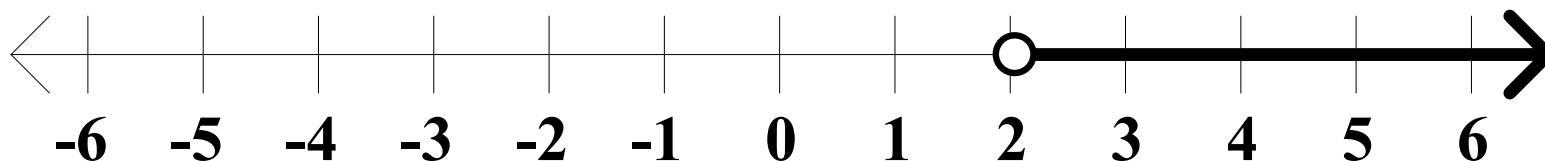


Algebra II Class Worksheet #2 Unit 1

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(b) $(2 ,$

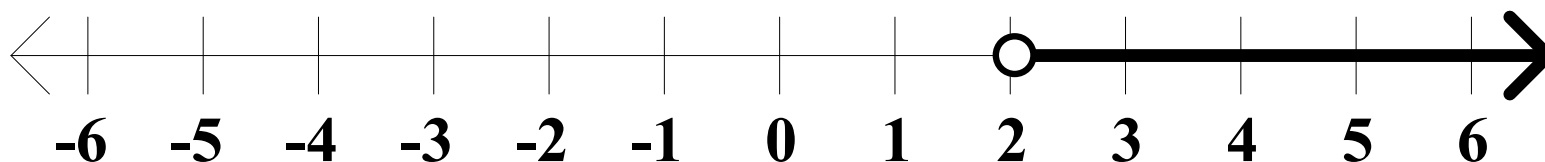


Algebra II Class Worksheet #2 Unit 1

For each of the following graphs, (a) write an appropriate inequality and (b) represent the graph using interval notation.

3. (a) $x > 2$

(b) $(2, \infty$

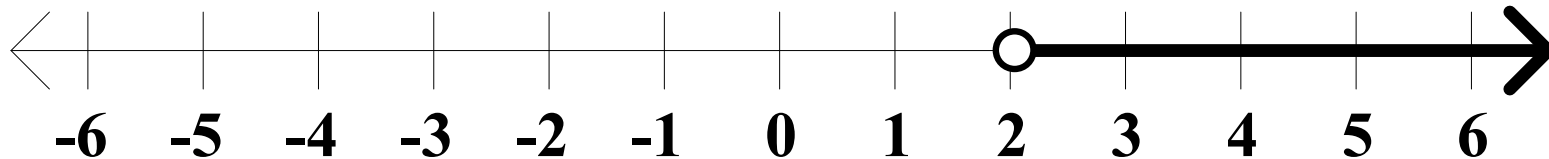


Algebra II Class Worksheet #2 Unit 1

For each of the following graphs, (a) write an appropriate inequality and (b) represent the graph using interval notation.

3. (a) $x > 2$

(b) $(2 , \infty)$

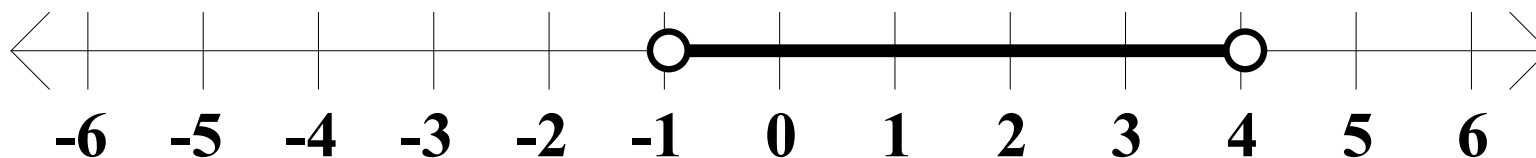


Algebra II Class Worksheet #2 Unit 1

For each of the following graphs, (a) write an appropriate inequality and (b) represent the graph using interval notation.

4. (a) _____

(b) _____

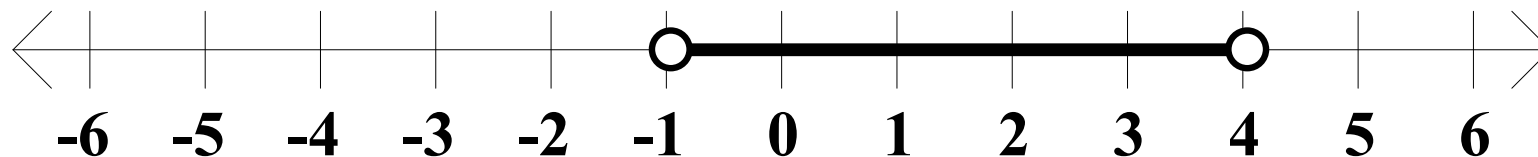


Algebra II Class Worksheet #2 Unit 1

For each of the following graphs, (a) write an appropriate inequality and (b) represent the graph using interval notation.

4. (a) -1

(b) _____

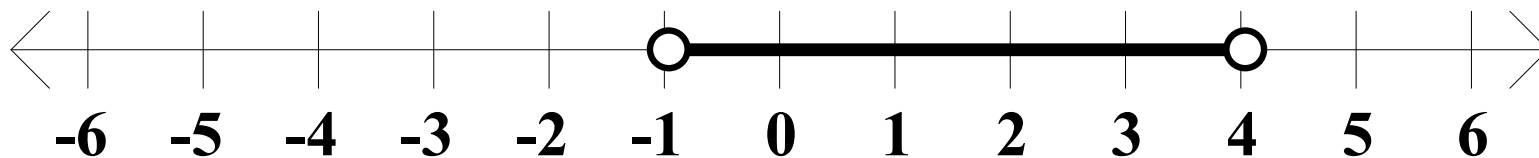


Algebra II Class Worksheet #2 Unit 1

For each of the following graphs, (a) write an appropriate inequality and (b) represent the graph using interval notation.

4. (a) $-1 <$ _____

(b) _____

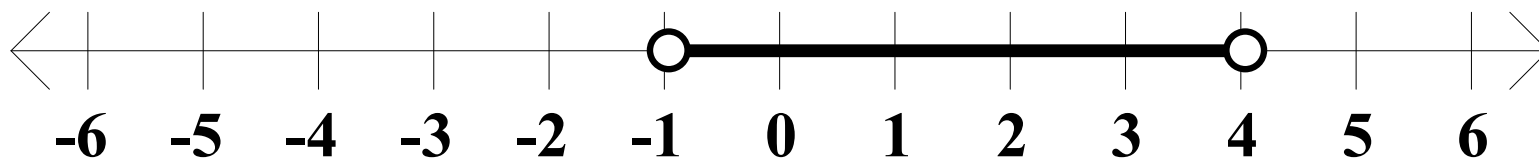


Algebra II Class Worksheet #2 Unit 1

For each of the following graphs, (a) write an appropriate inequality and (b) represent the graph using interval notation.

4. (a) $-1 < x$ _____

(b) _____

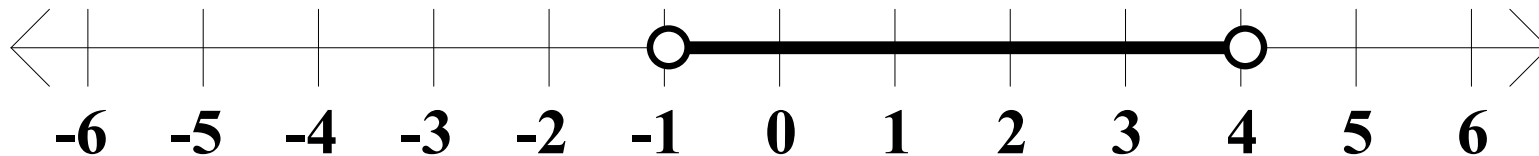


Algebra II Class Worksheet #2 Unit 1

For each of the following graphs, (a) write an appropriate inequality and (b) represent the graph using interval notation.

4. (a) $-1 < x <$ _____

(b) _____

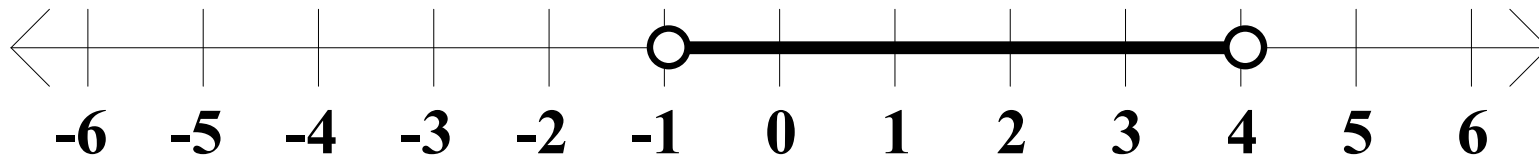


Algebra II Class Worksheet #2 Unit 1

For each of the following graphs, (a) write an appropriate inequality and (b) represent the graph using interval notation.

4. (a) $-1 < x < 4$ _____

(b) _____

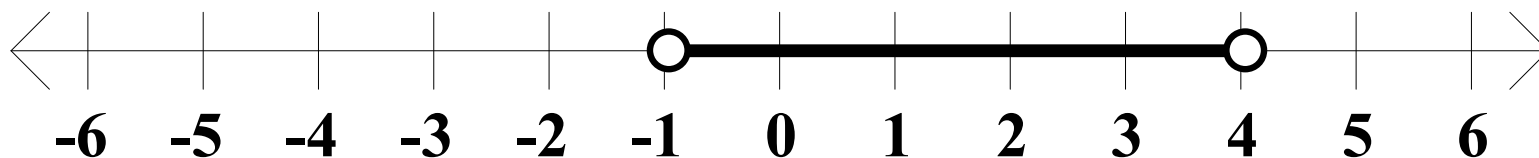


Algebra II Class Worksheet #2 Unit 1

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4. (a) $-1 < x < 4$

(b) (

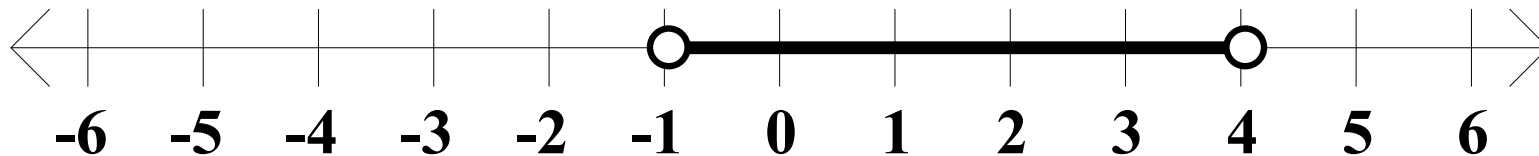


Algebra II Class Worksheet #2 Unit 1

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(b) $(-1$

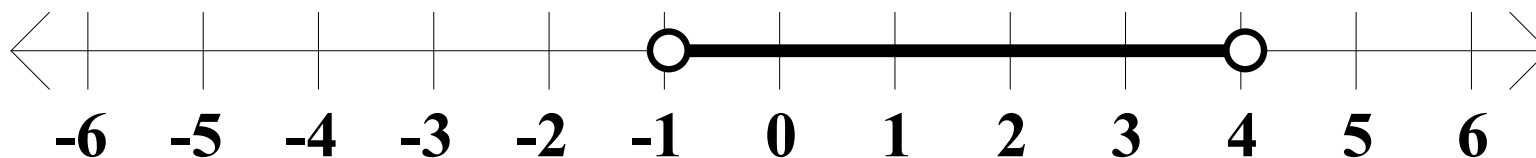


Algebra II Class Worksheet #2 Unit 1

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4. (a) $-1 < x < 4$

(b) $(-1,$

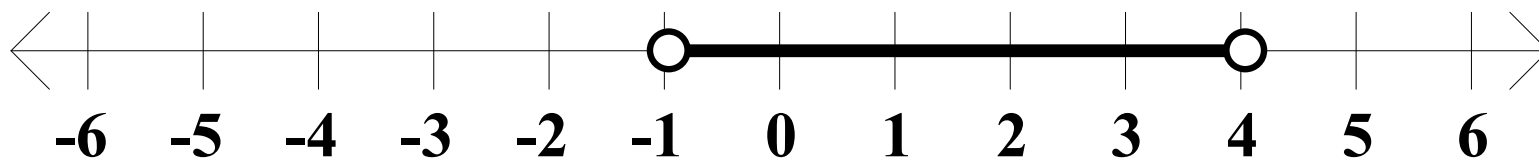


Algebra II Class Worksheet #2 Unit 1

For each of the following graphs, (a) write an appropriate inequality and (b) represent the graph using interval notation.

4. (a) $-1 < x < 4$

(b) $(-1, 4)$

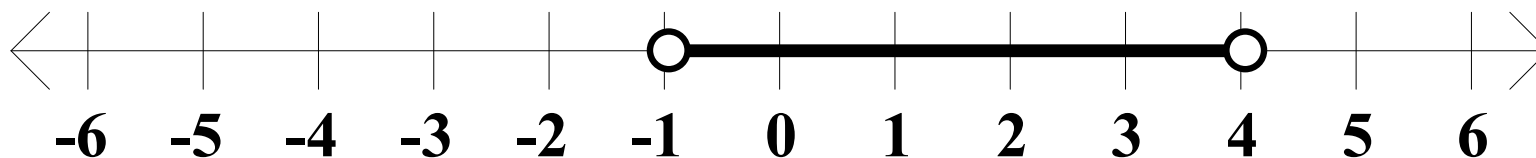


Algebra II Class Worksheet #2 Unit 1

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(b) $(-1, 4)$



Algebra II Class Worksheet #2 Unit 1

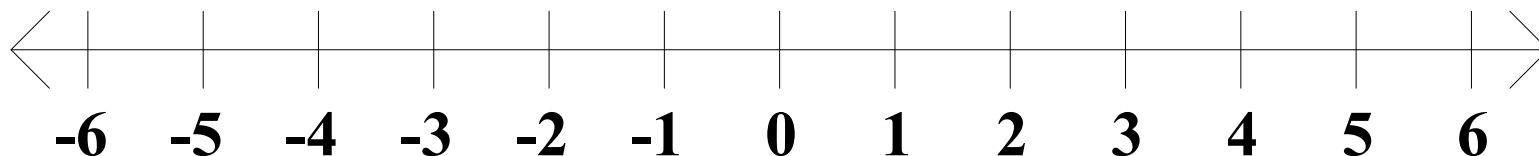
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

5. $(-2, \infty)$

(a) _____

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

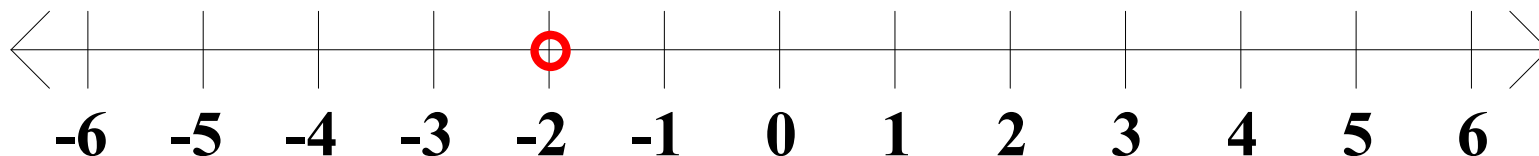
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(a) _____

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

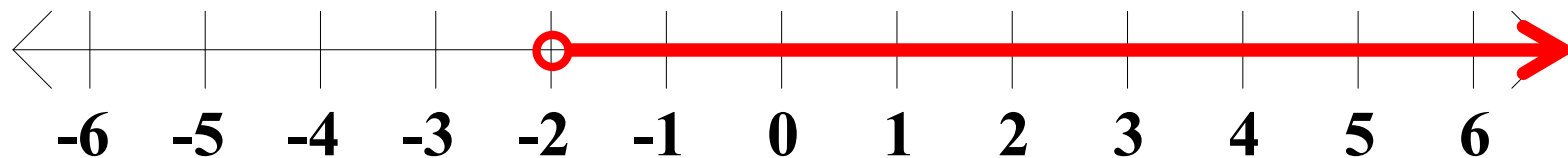
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(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

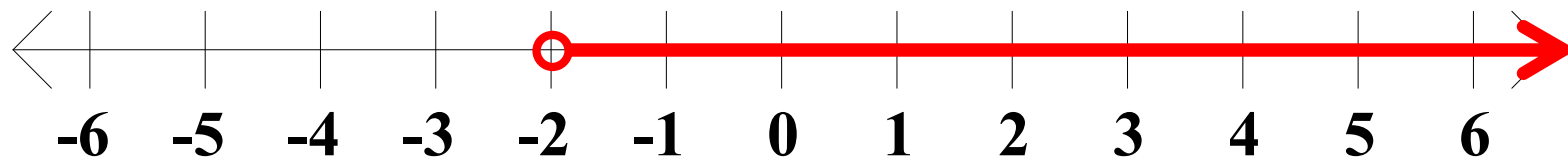
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(a) _____

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

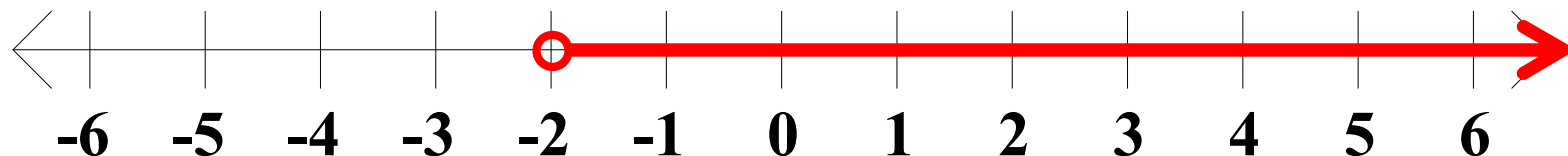
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

5. $(-2, \infty)$

(a) $x >$ _____

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

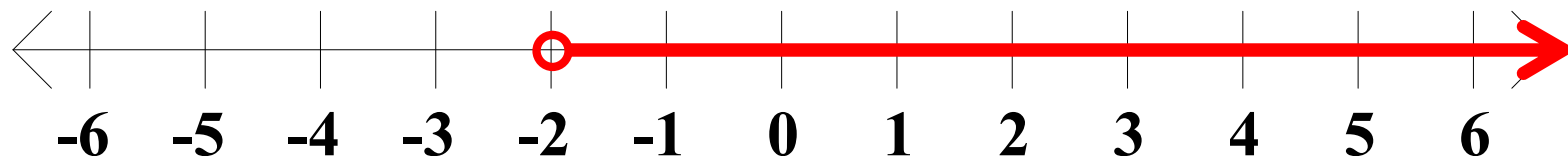
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

5. $(-2, \infty)$

(a) $x > -2$

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

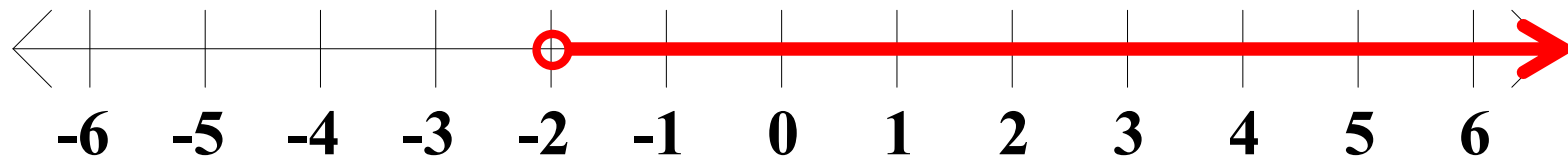
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

5. $(-2, \infty)$

(a) $x > -2$

(b) unbounded

(c)



Algebra II Class Worksheet #2 Unit 1

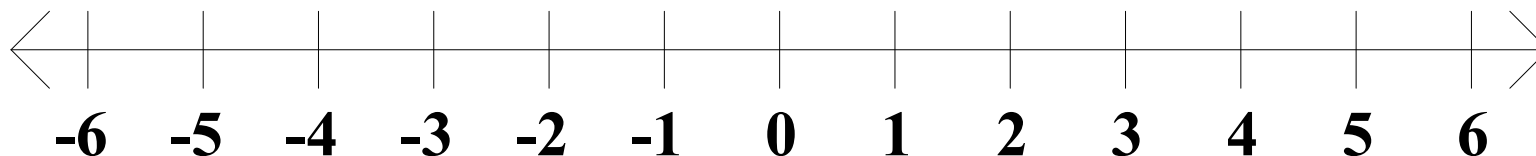
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

6. $(3, 5)$

(a) _____

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

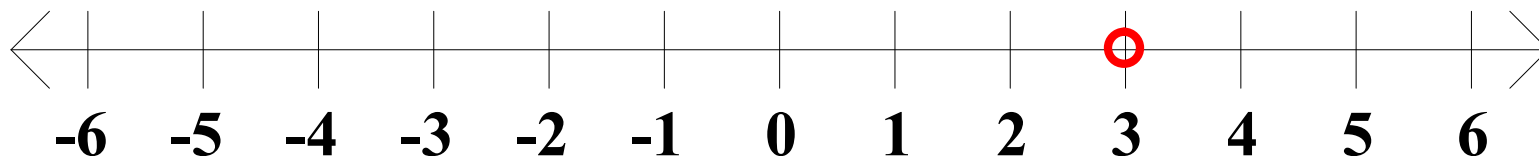
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(a) _____

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

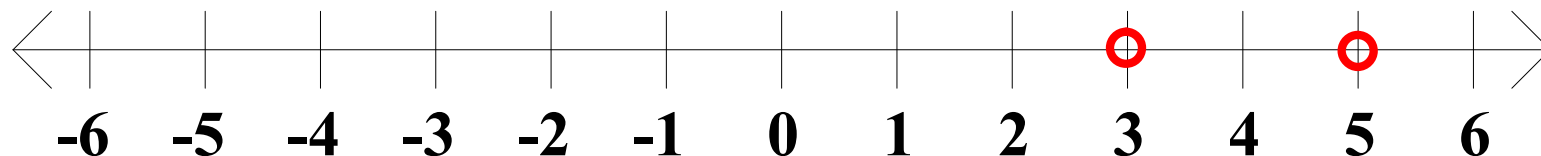
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(a) _____

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

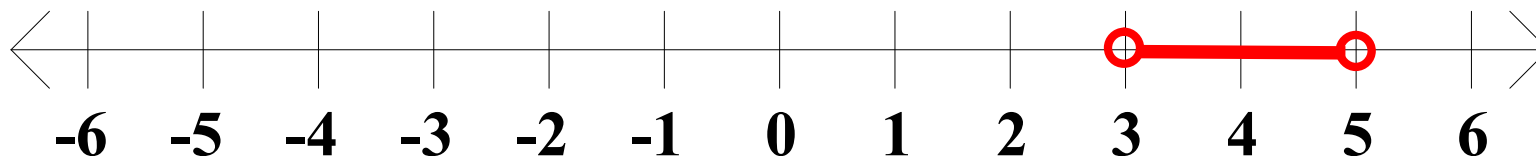
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

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(a) _____

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

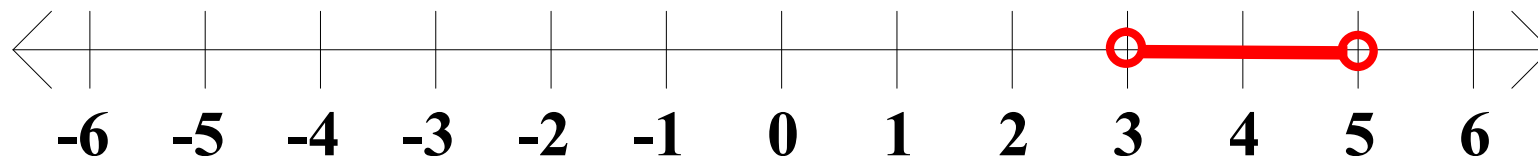
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

6. $(3, 5)$

(a) _____

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

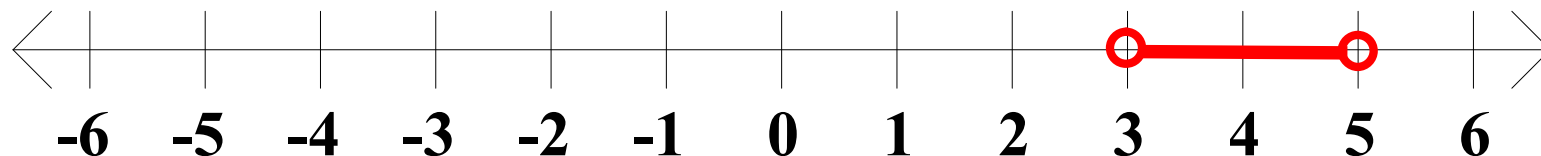
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

6. $(3, 5)$

(a) $3 < \underline{\hspace{10em}}$

(b) $\underline{\hspace{10em}}$

(c)



Algebra II Class Worksheet #2 Unit 1

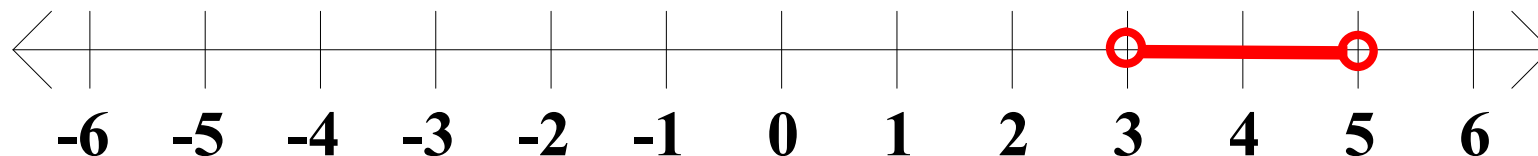
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

6. $(3, 5)$

(a) $3 < x$

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

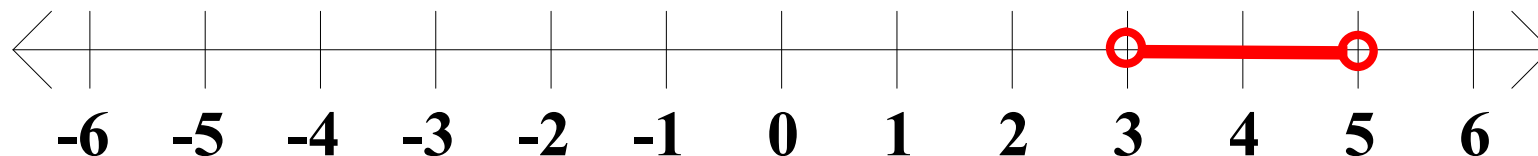
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

6. $(3, 5)$

(a) $3 < x < 5$

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

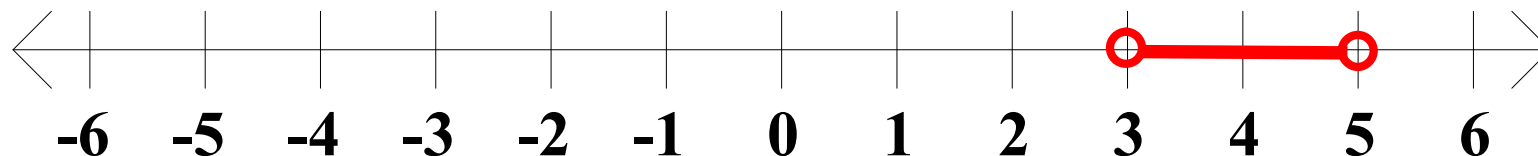
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6. $(3, 5)$

(a) $3 < x < 5$

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

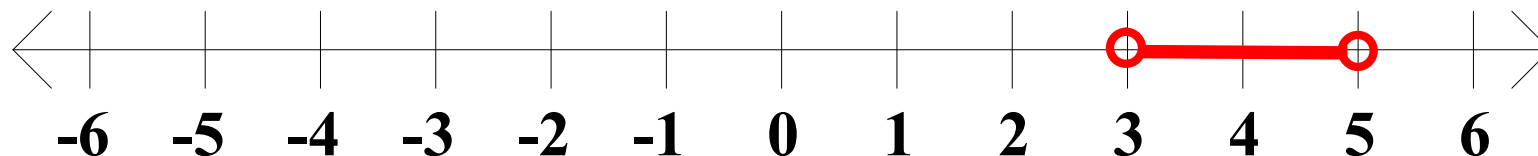
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

6. $(3, 5)$

(a) $3 < x < 5$

(b) bounded

(c)



Algebra II Class Worksheet #2 Unit 1

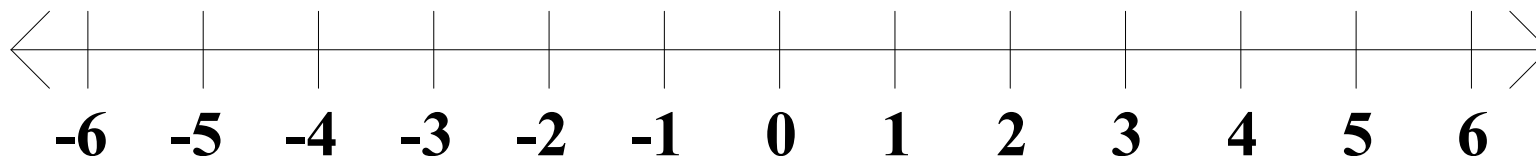
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

7. $(-\infty, 4]$

(a) _____

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

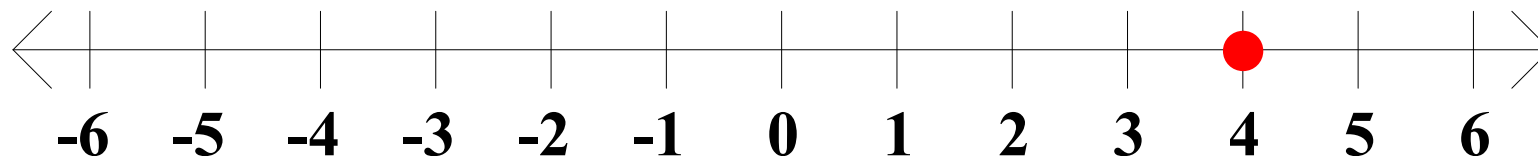
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7. $(-\infty, 4]$

(a) _____

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

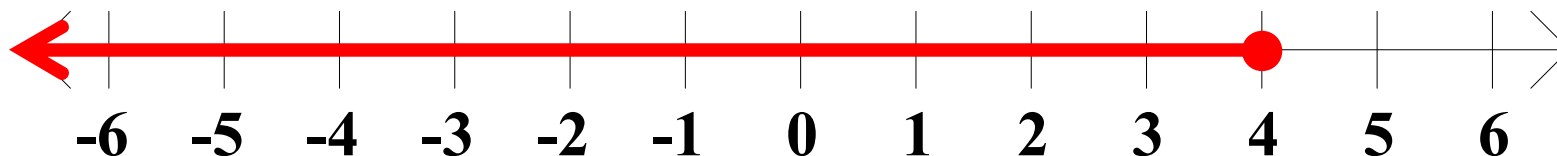
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7. $(-\infty, 4]$

(a) _____

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

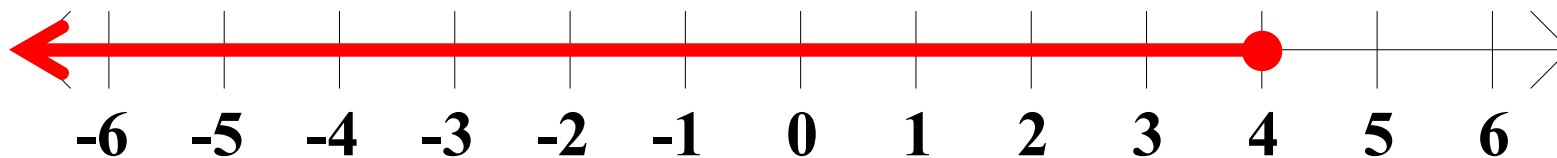
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

7. $(-\infty, 4]$

(a) _____

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

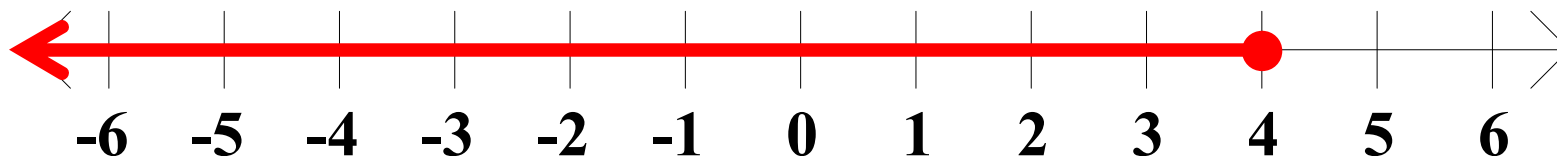
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

7. $(-\infty, 4]$

(a) $x \leq$ _____

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

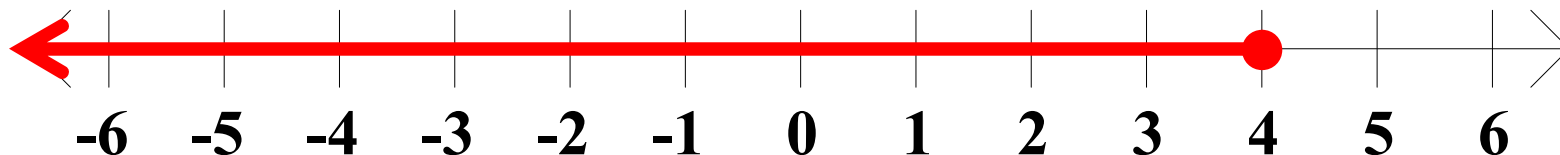
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

7. $(-\infty, 4]$

(a) $x \leq 4$

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

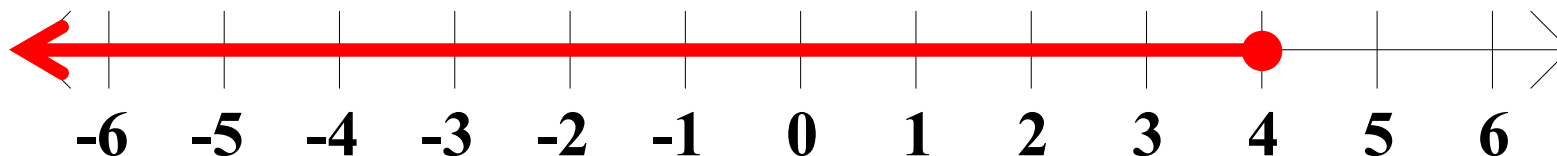
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7. $(-\infty, 4]$

(a) $x \leq 4$

(b) unbounded

(c)



Algebra II Class Worksheet #2 Unit 1

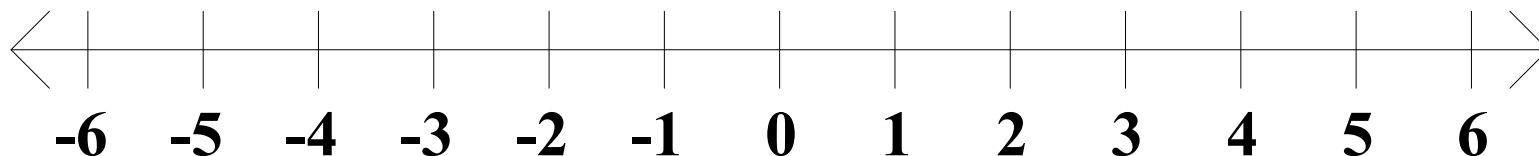
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

8. $[-3, 0]$

(a) _____

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

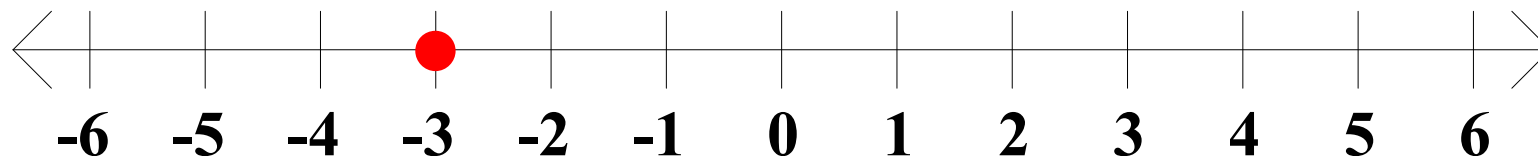
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

8. $[-3, 0]$

(a) _____

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

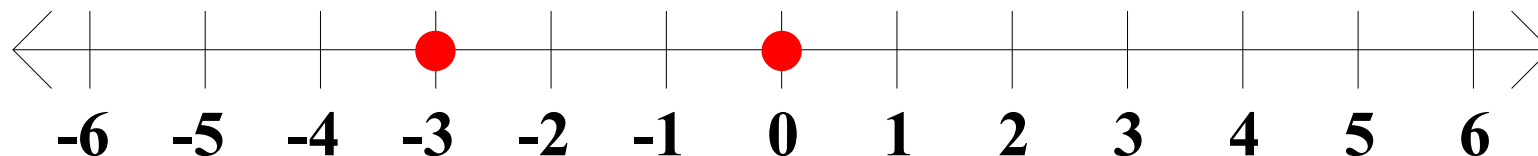
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

8. $[-3, 0]$

(a) _____

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

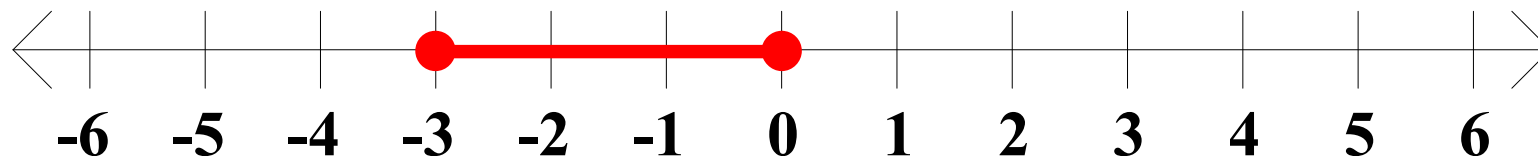
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

8. $[-3, 0]$

(a) _____

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

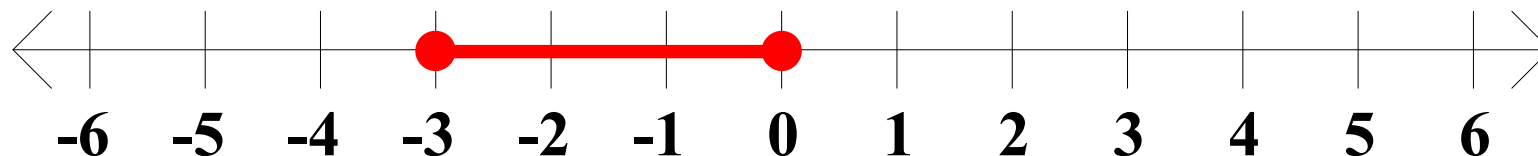
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

8. $[-3, 0]$

(a) -3

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

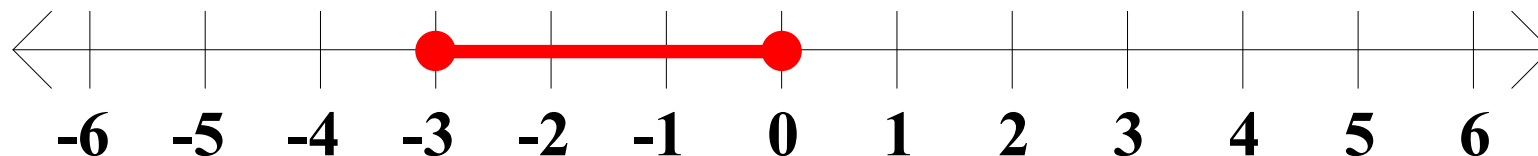
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

8. $[-3, 0]$

(a) $-3 \leq$ _____

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

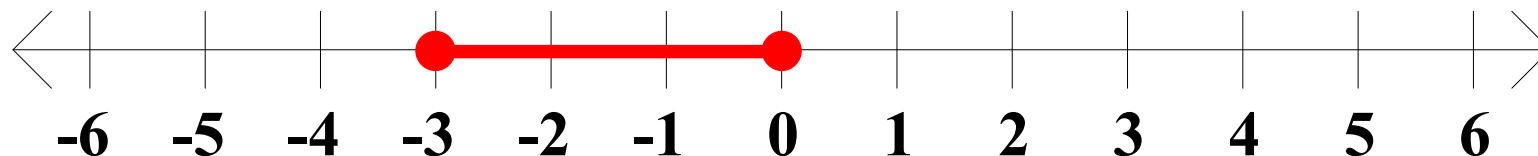
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

8. $[-3, 0]$

(a) $-3 \leq x$

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

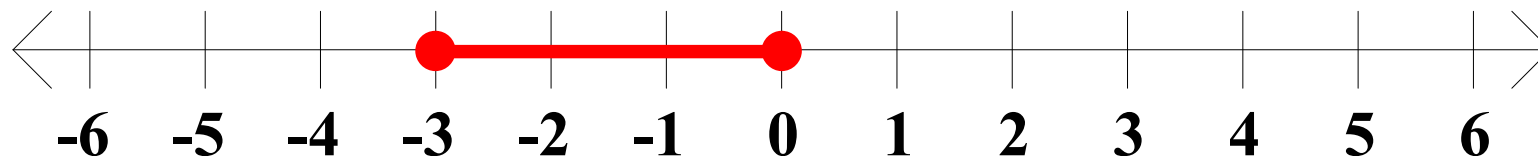
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

8. $[-3, 0]$

(a) $\underline{-3} \leq x \leq \underline{0}$

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

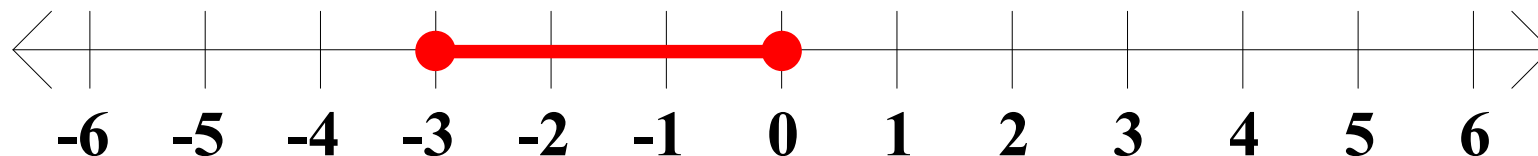
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

8. $[-3, 0]$

(a) $-3 \leq x \leq 0$

(b) _____

(c)



Algebra II Class Worksheet #2 Unit 1

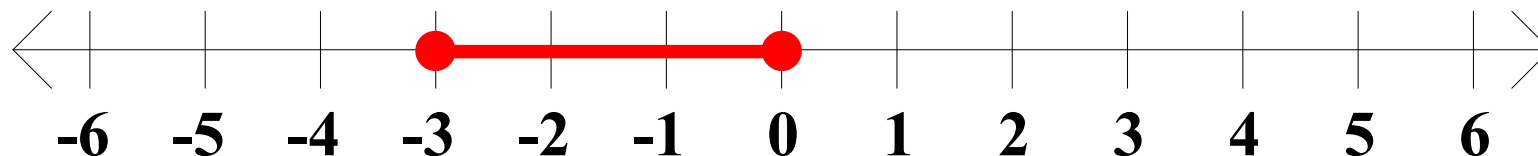
For each of the following intervals, (a) write an appropriate inequality, (b) tell whether it is bounded or unbounded, and (c) sketch its graph.

8. $[-3, 0]$

(a) $-3 \leq x \leq 0$

(b) bounded

(c)



Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

9. $4(3x + 2) - 2(x + 5) \geq 8$

Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$9. \quad 4(3x + 2) - 2(x + 5) \geq 8$$
$$12x$$

Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

9. $4(3x + 2) - 2(x + 5) \geq 8$
 $12x +$

Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$9. \quad 4(3x + 2) - 2(x + 5) \geq 8$$
$$12x + 8$$

Algebra II Class Worksheet #2 Unit 1

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$$9. \quad 4(3x + 2) - 2(x + 5) \geq 8$$
$$12x + 8 -$$

Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

9. $4(3x + 2) - 2(x + 5) \geq 8$

$12x + 8 - 2x$

Algebra II Class Worksheet #2 Unit 1

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9. $4(3x + 2) - 2(x + 5) \geq 8$

$$12x + 8 - 2x -$$

Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

9. $4(3x + 2) - 2(x + 5) \geq 8$

$12x + 8 - 2x - 10$

Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

9. $4(3x + 2) - 2(x + 5) \geq 8$

$12x + 8 - 2x - 10 \geq$

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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$9. \quad 4(3x + 2) - 2(x + 5) \geq 8$$

$$12x + 8 - 2x - 10 \geq 8$$

$$10x$$

Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$9. \quad 4(3x + 2) - 2(x + 5) \geq 8$$

$$12x + 8 - 2x - 10 \geq 8$$

$$10x -$$

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$$10x - 2$$

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$$10x \geq 10$$

$$x$$

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$$10x \geq 10$$

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$$12x + 8 - 2x - 10 \geq 8$$

$$10x - 2 \geq 8$$

$$10x \geq 10$$

$$x \geq 1$$

Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

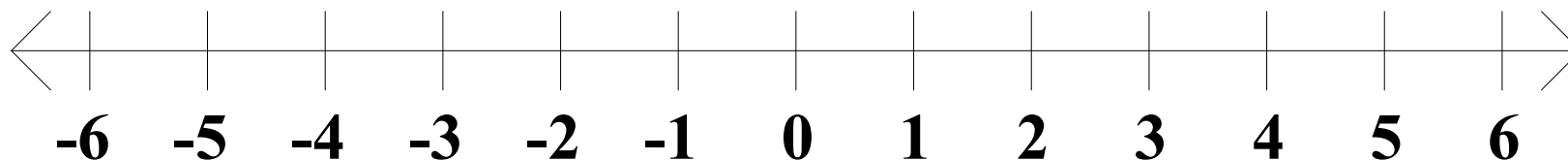
$$9. \quad 4(3x + 2) - 2(x + 5) \geq 8$$

$$12x + 8 - 2x - 10 \geq 8$$

$$10x - 2 \geq 8$$

$$10x \geq 10$$

$$x \geq 1$$



Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

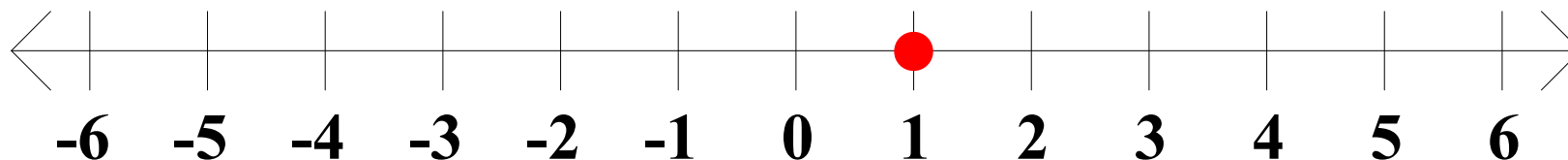
$$9. \quad 4(3x + 2) - 2(x + 5) \geq 8$$

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$$10x - 2 \geq 8$$

$$10x \geq 10$$

$$x \geq 1$$



Algebra II Class Worksheet #2 Unit 1

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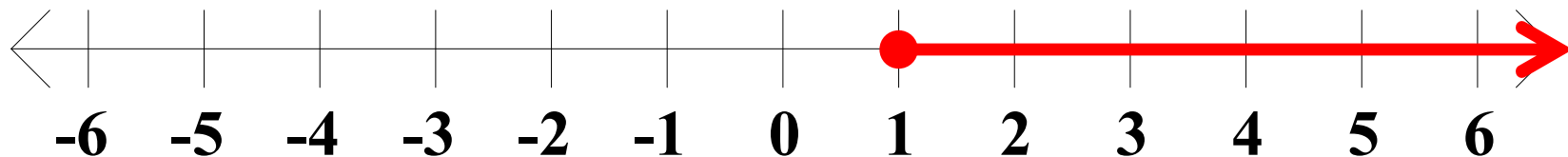
$$9. \quad 4(3x + 2) - 2(x + 5) \geq 8$$

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$$10x - 2 \geq 8$$

$$10x \geq 10$$

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Algebra II Class Worksheet #2 Unit 1

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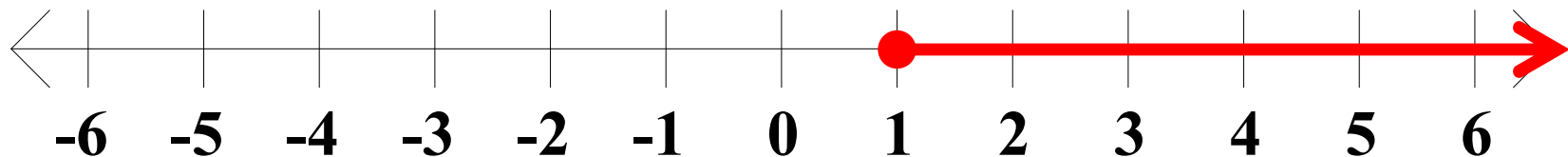
$$12x + 8 - 2x - 10 \geq 8$$

$$10x - 2 \geq 8$$

$$10x \geq 10$$

$$x \geq 1$$

S =



Algebra II Class Worksheet #2 Unit 1

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$$9. \quad 4(3x + 2) - 2(x + 5) \geq 8$$

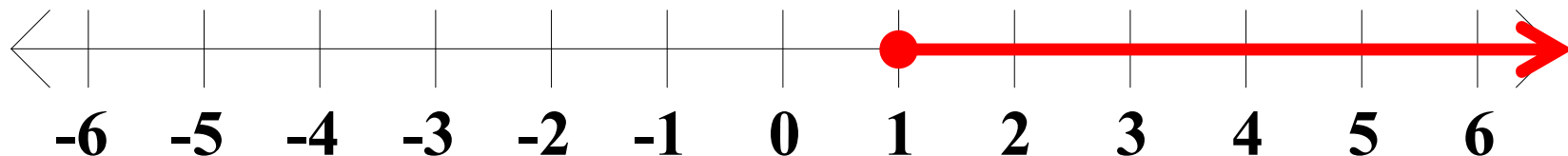
$$12x + 8 - 2x - 10 \geq 8$$

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$$10x \geq 10$$

$$x \geq 1$$

$$S = [$$



Algebra II Class Worksheet #2 Unit 1

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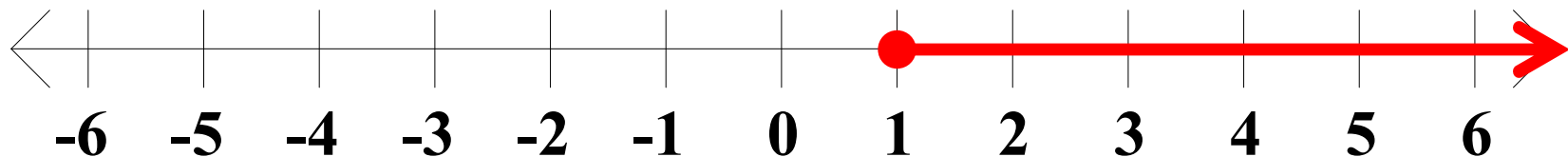
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$$10x \geq 10$$

$$x \geq 1$$

$$S = [1$$



Algebra II Class Worksheet #2 Unit 1

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$$9. \quad 4(3x + 2) - 2(x + 5) \geq 8$$

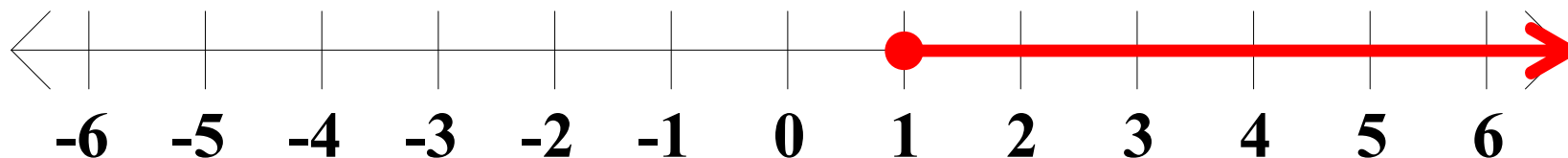
$$12x + 8 - 2x - 10 \geq 8$$

$$10x - 2 \geq 8$$

$$10x \geq 10$$

$$x \geq 1$$

$$S = [1, \infty)$$



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$$9. \quad 4(3x + 2) - 2(x + 5) \geq 8$$

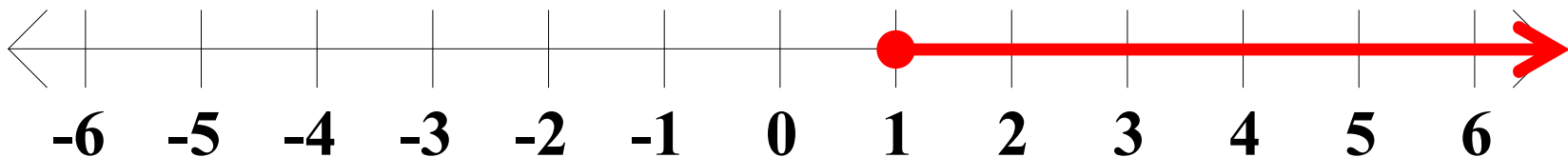
$$12x + 8 - 2x - 10 \geq 8$$

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$$10x \geq 10$$

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$$S = [1, \infty)$$



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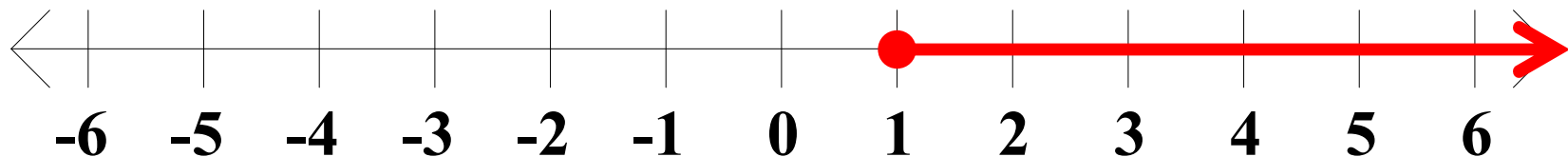
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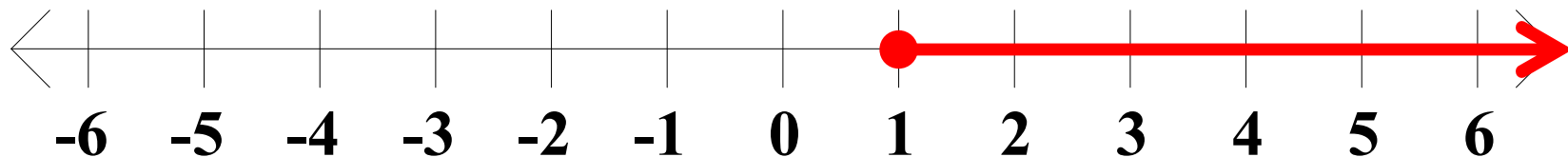
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$$x \geq 1$$

$$S = [1, \infty)$$



Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

10. $5(3x + 1) - 4(5x - 3) > 2$

Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

10. $5(3x + 1) - 4(5x - 3) > 2$

$15x$

Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

10. $5(3x + 1) - 4(5x - 3) > 2$
 $15x +$

Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$\mathbf{10. \quad 5(3x + 1) - 4(5x - 3) > 2}$$
$$\mathbf{15x + 5}$$

Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

10. $5(3x + 1) - 4(5x - 3) > 2$

$15x + 5 -$

Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

10. $5(3x + 1) - 4(5x - 3) > 2$

$15x + 5 - 20x$

Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

10. $5(3x + 1) - 4(5x - 3) > 2$

$15x + 5 - 20x +$

Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

10. $5(3x + 1) - 4(5x - 3) > 2$

$15x + 5 - 20x + 12$

Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

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$15x + 5 - 20x + 12 >$

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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

10. $5(3x + 1) - 4(5x - 3) > 2$

$15x + 5 - 20x + 12 > 2$

Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$10. \quad 5(3x + 1) - 4(5x - 3) > 2$$

$$15x + 5 - 20x + 12 > 2$$

$$-5x$$

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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$10. \quad 5(3x + 1) - 4(5x - 3) > 2$$

$$15x + 5 - 20x + 12 > 2$$

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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$10. \quad 5(3x + 1) - 4(5x - 3) > 2$$

$$15x + 5 - 20x + 12 > 2$$

$$-5x + 17$$

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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$10. \quad 5(3x + 1) - 4(5x - 3) > 2$$

$$15x + 5 - 20x + 12 > 2$$

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$$-5x > -15$$

$$x < 3$$

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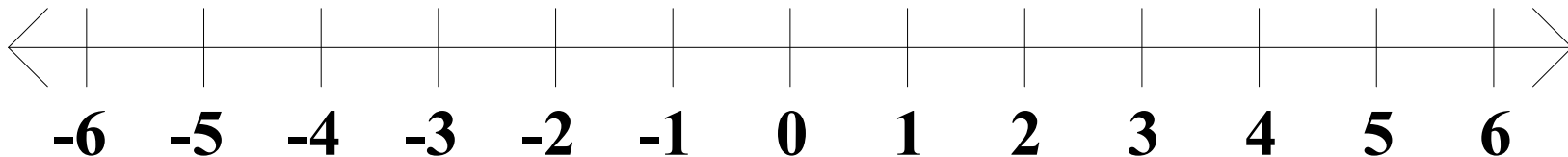
$$10. \quad 5(3x + 1) - 4(5x - 3) > 2$$

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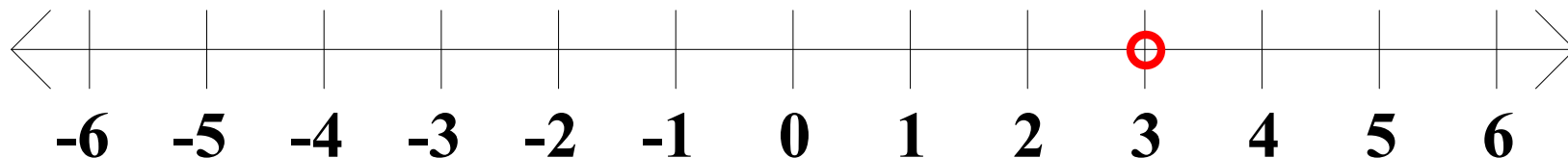
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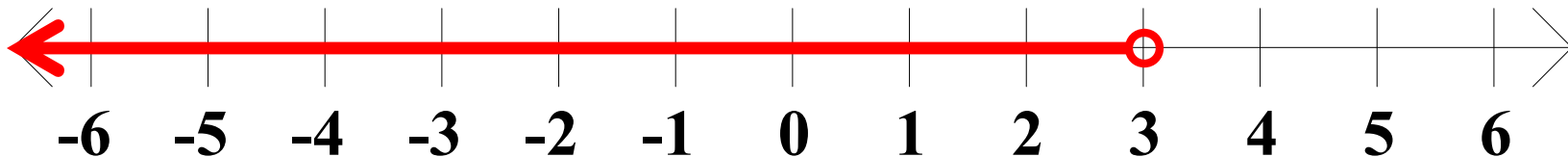
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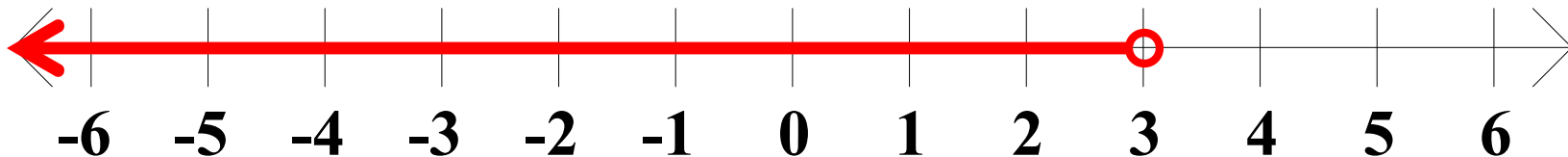
$$15x + 5 - 20x + 12 > 2$$

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$$x < 3$$

$$S =$$



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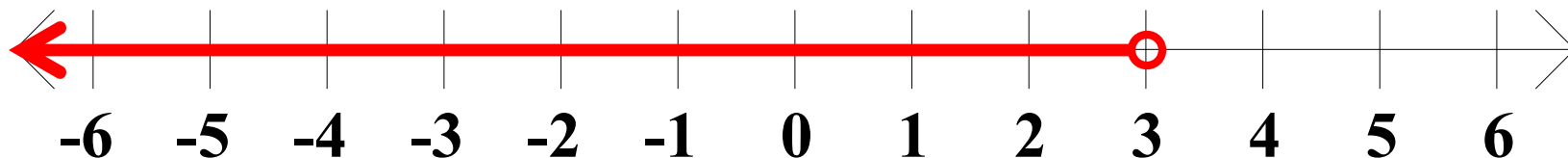
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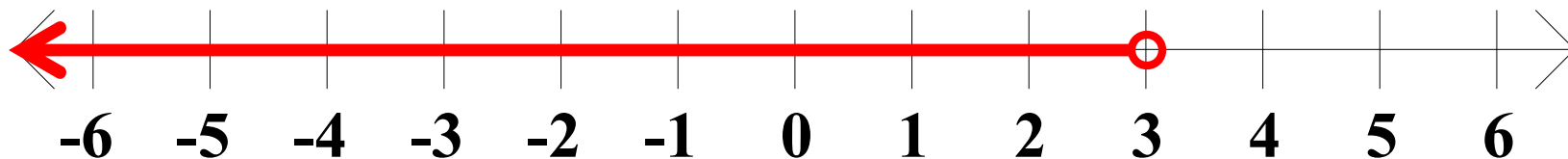
$$15x + 5 - 20x + 12 > 2$$

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$$-5x > -15$$

$$x < 3$$

$$S = (-\infty$$



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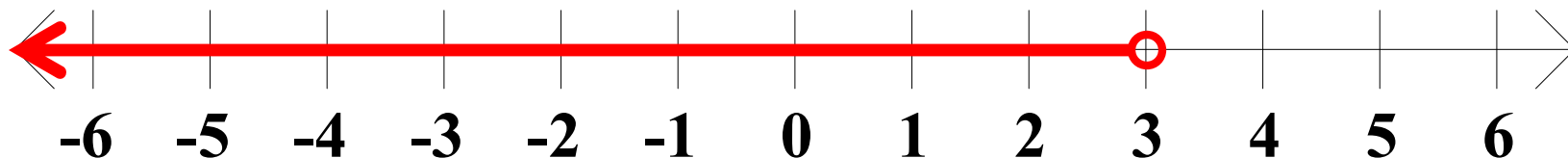
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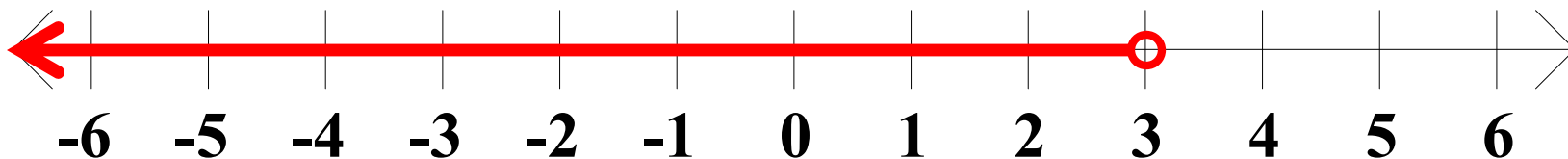
$$15x + 5 - 20x + 12 > 2$$

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$$x < 3$$

$$S = (-\infty, 3$$



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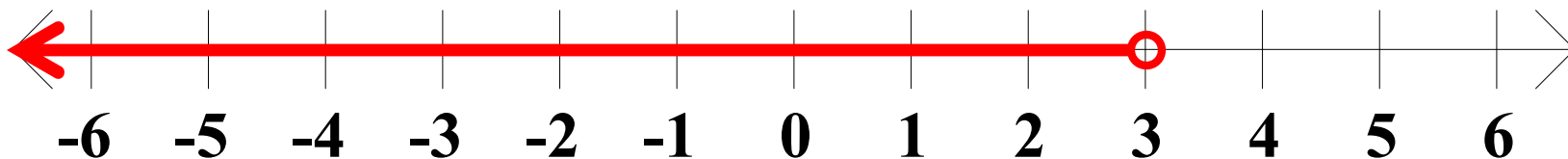
$$15x + 5 - 20x + 12 > 2$$

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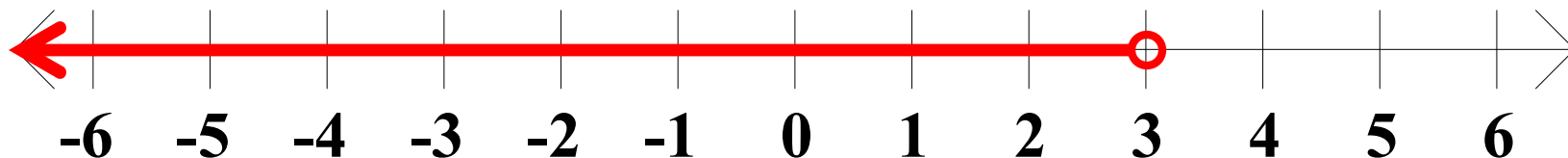
$$15x + 5 - 20x + 12 > 2$$

$$-5x + 17 > 2$$

$$-5x > -15$$

$$x < 3$$

$$S = (-\infty, 3)$$



Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

11. $3(4x - 3) - 4(2x - 3) \leq 4(x - 3) - 5(2x - 1)$

Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

11. $3(4x - 3) - 4(2x - 3) \leq 4(x - 3) - 5(2x - 1)$

$12x$

Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

11. $3(4x - 3) - 4(2x - 3) \leq 4(x - 3) - 5(2x - 1)$

$12x -$

Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$11. \quad 3(4x - 3) - 4(2x - 3) \leq 4(x - 3) - 5(2x - 1)$$
$$12x - 9$$

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$12x - 9 -$

Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$11. \quad 3(4x - 3) - 4(2x - 3) \leq 4(x - 3) - 5(2x - 1)$$
$$12x - 9 - 8x$$

Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

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Algebra II Class Worksheet #2 Unit 1

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$$12x - 9 - 8x + 12 \leq 4x - 12 - 10x$$

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Algebra II Class Worksheet #2 Unit 1

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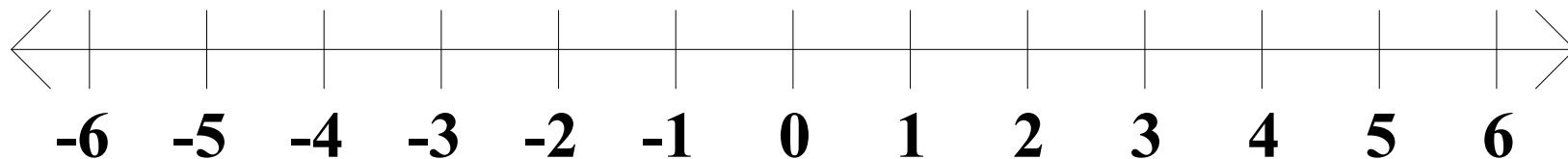
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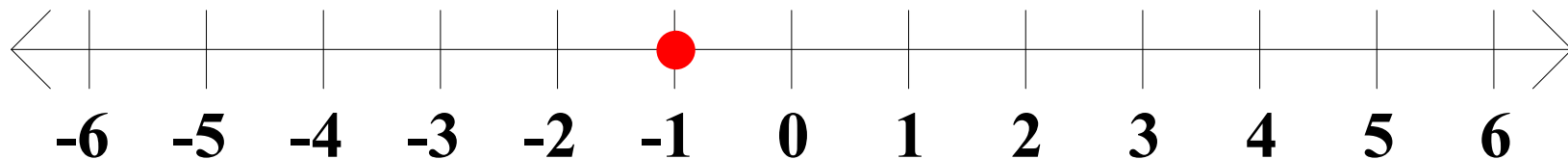
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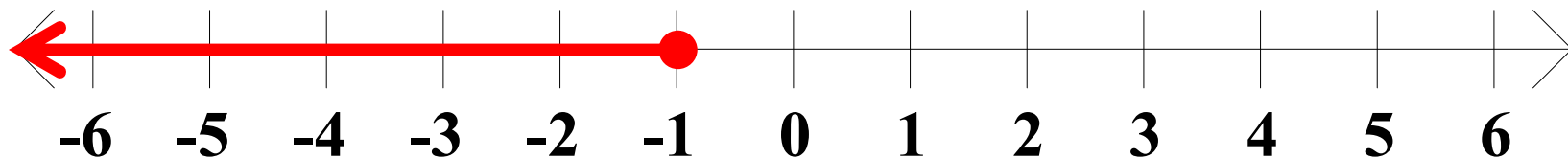
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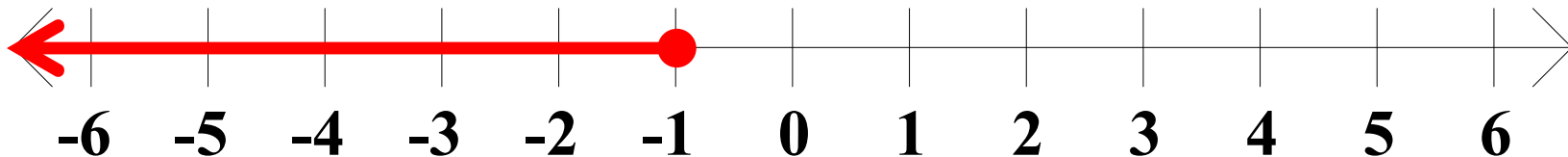
$$12x - 9 - 8x + 12 \leq 4x - 12 - 10x + 5$$

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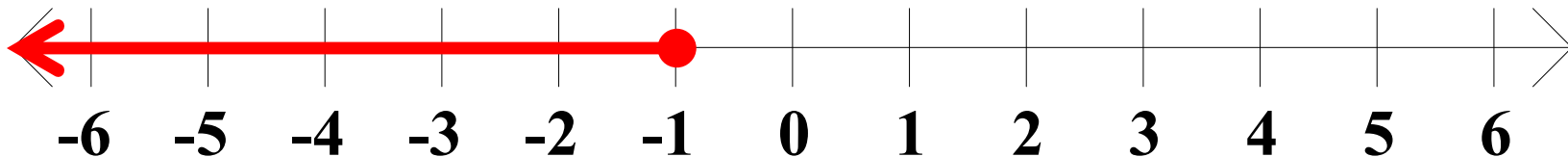
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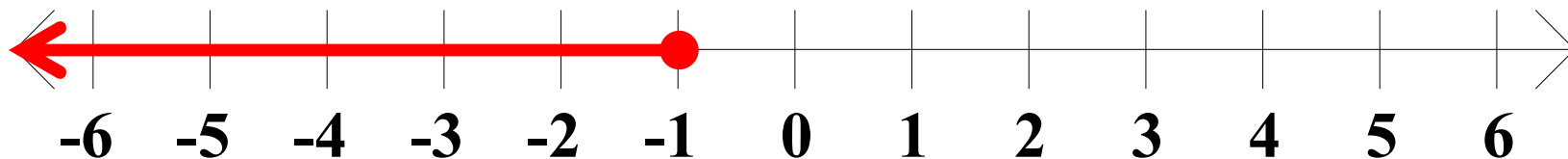
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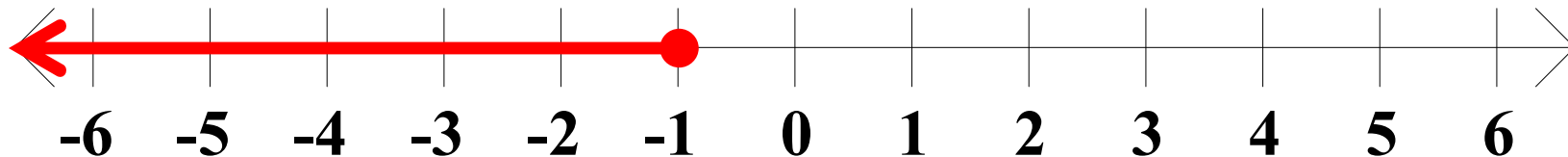
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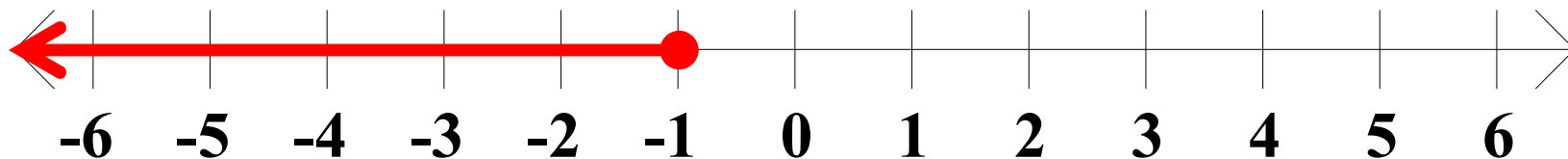
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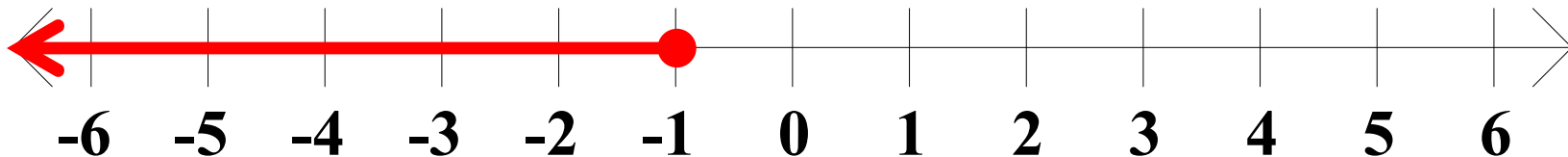
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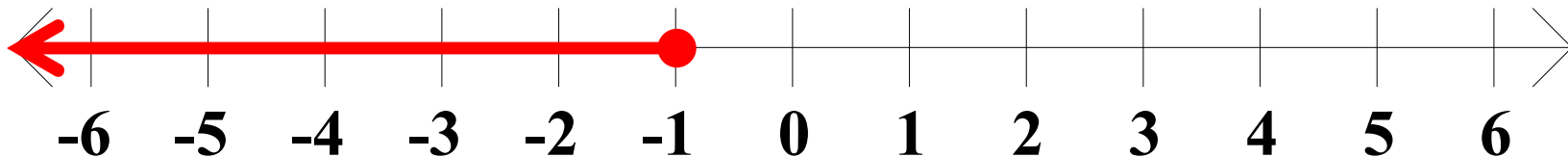
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Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

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5

Algebra II Class Worksheet #2 Unit 1

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Algebra II Class Worksheet #2 Unit 1

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$$12. \quad \underline{2} \leq 5x - 3 \leq \underline{12}$$

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Algebra II Class Worksheet #2 Unit 1

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Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

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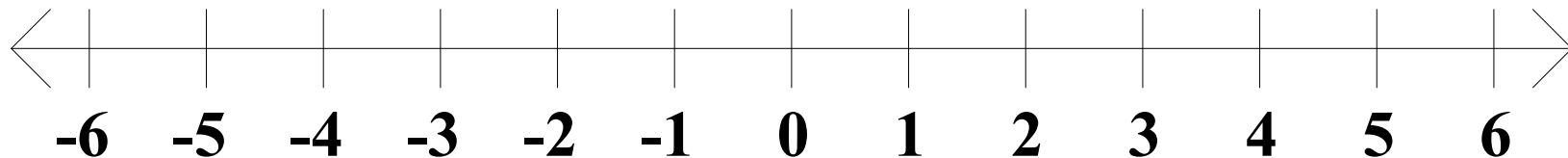
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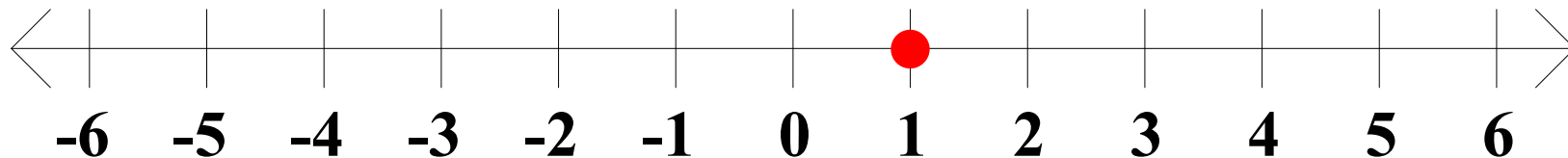
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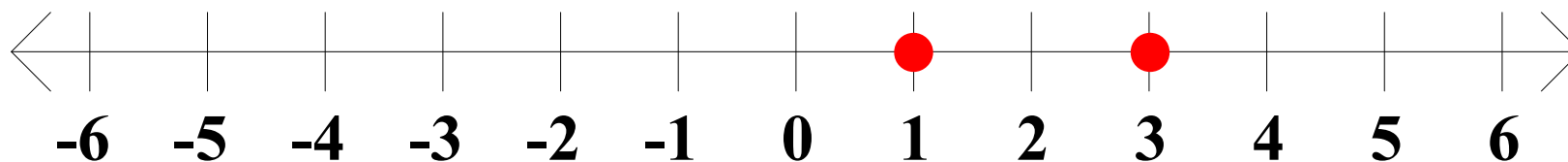
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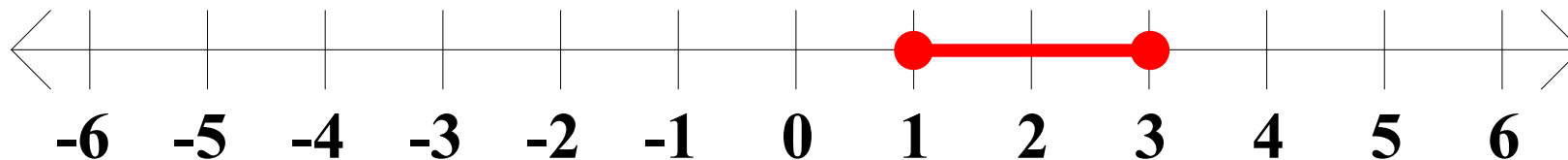
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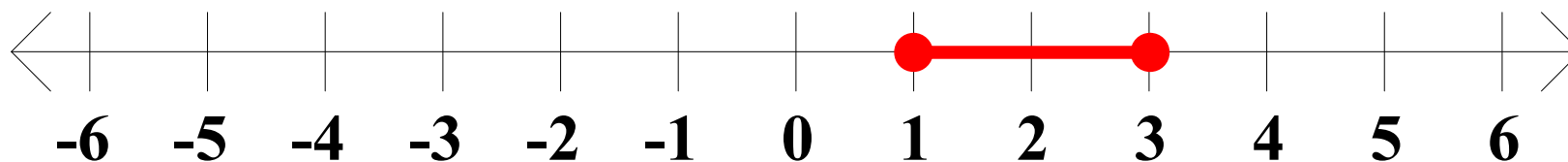
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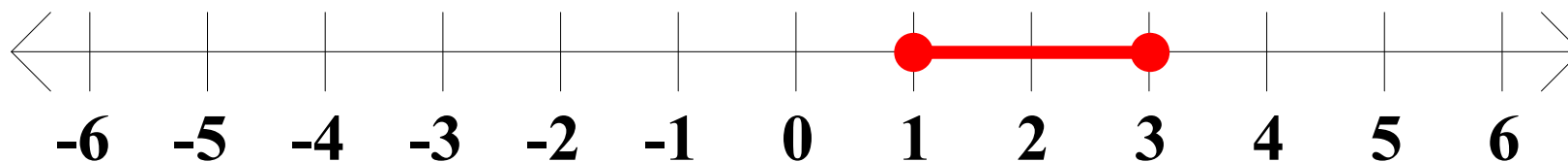
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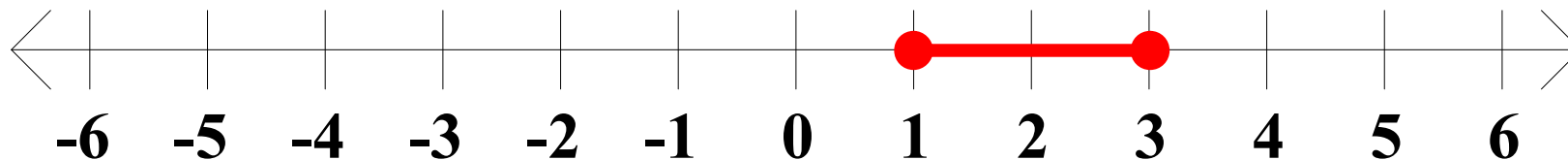
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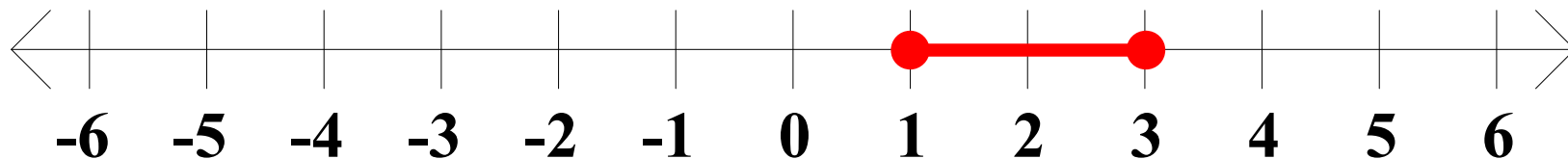
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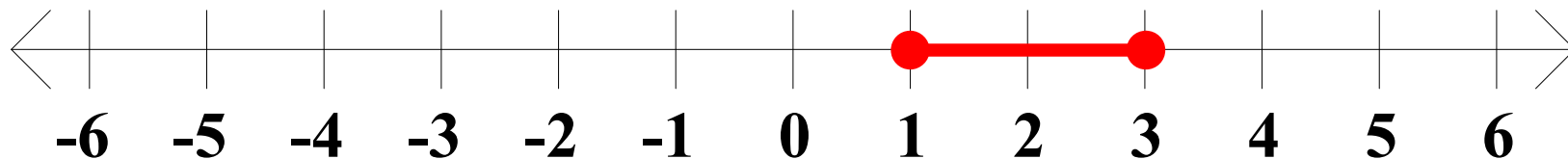
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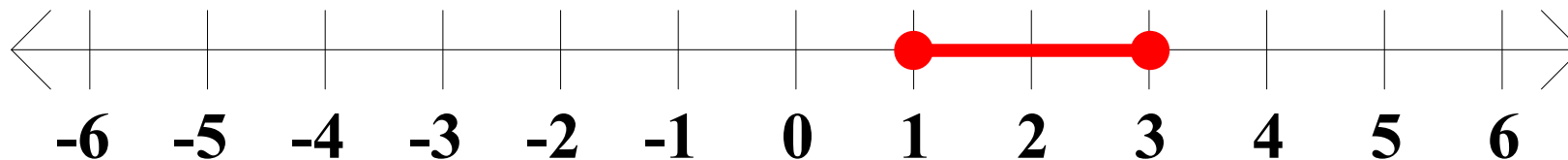
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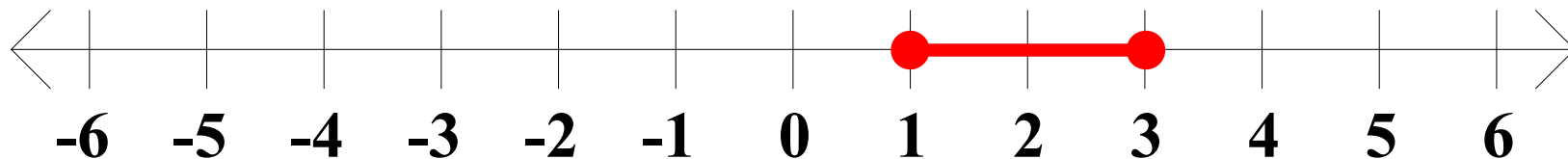
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Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

13. $-3 < 4x + 9 < 15$

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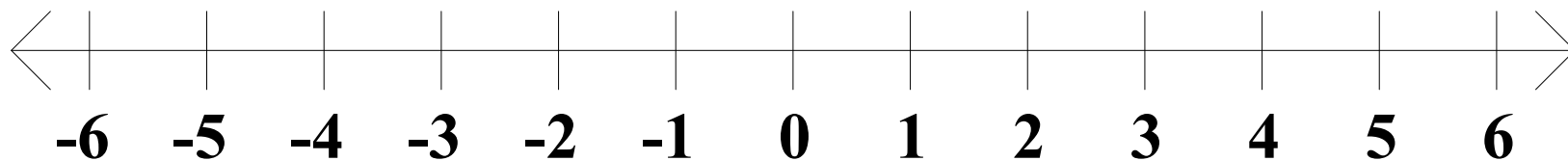
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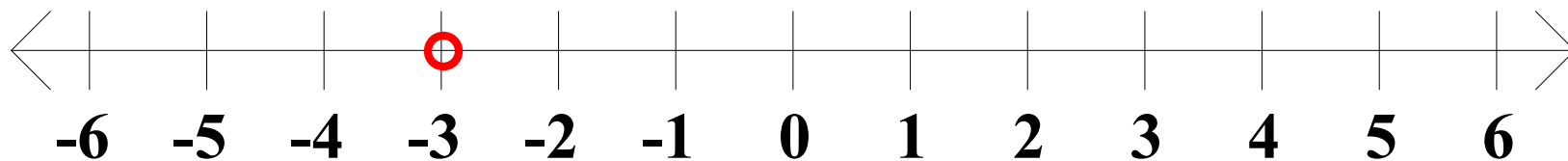
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$$-12 < 4x < 6$$

$$-3 < x < 1.5$$



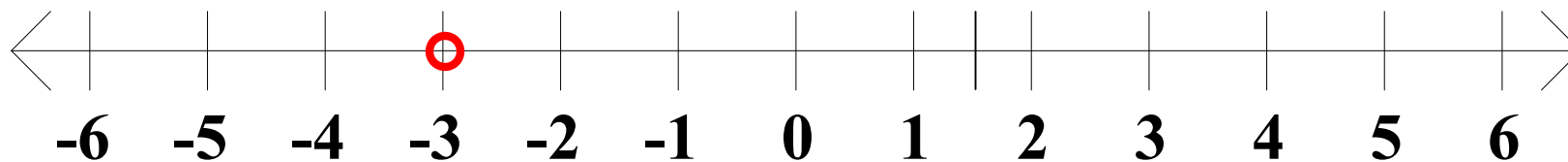
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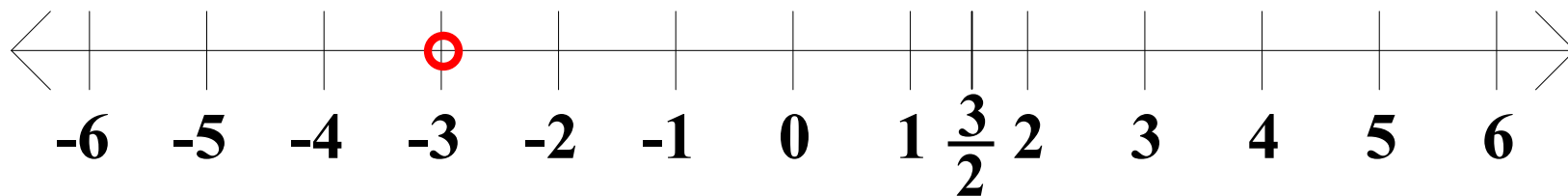
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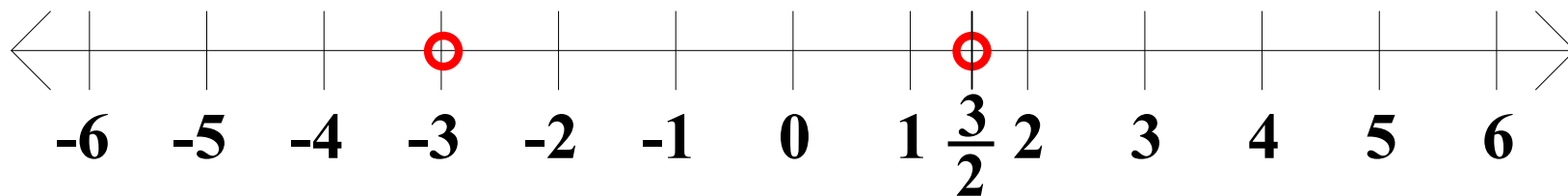
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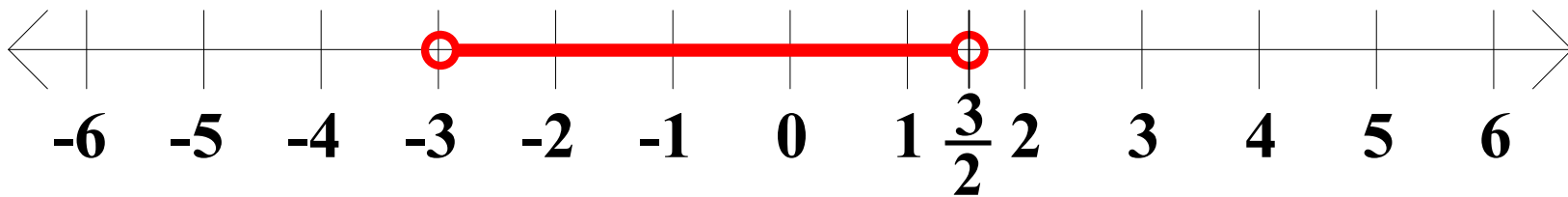
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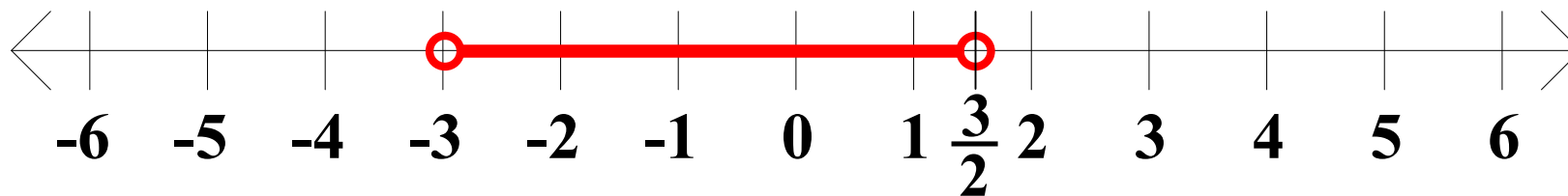
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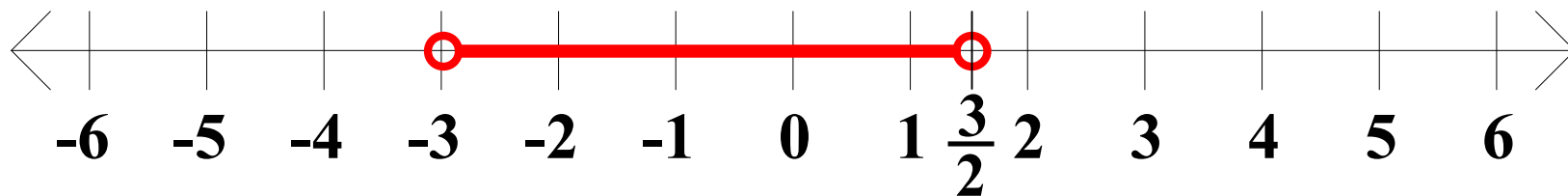
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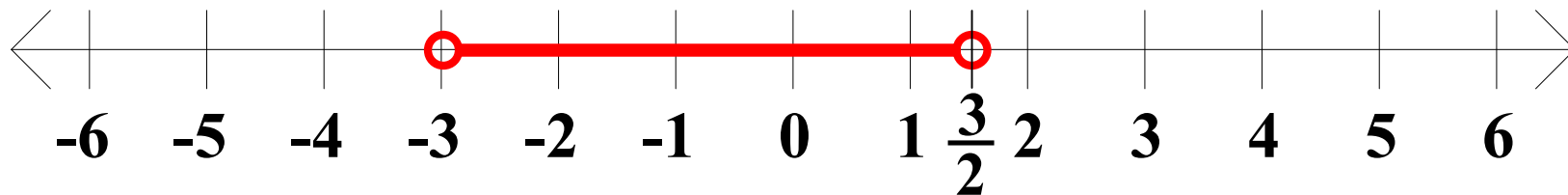
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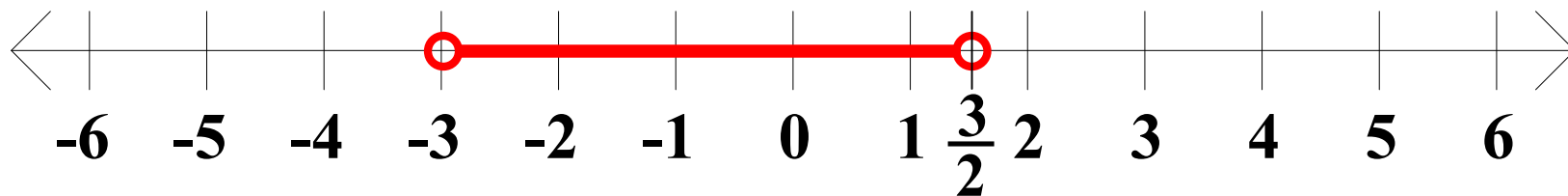
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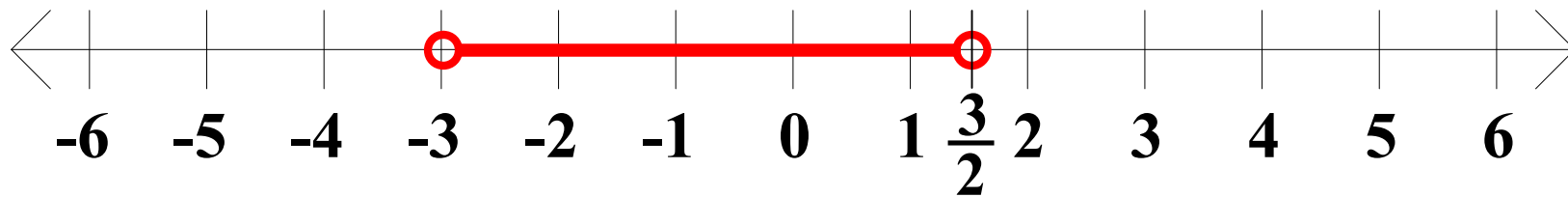
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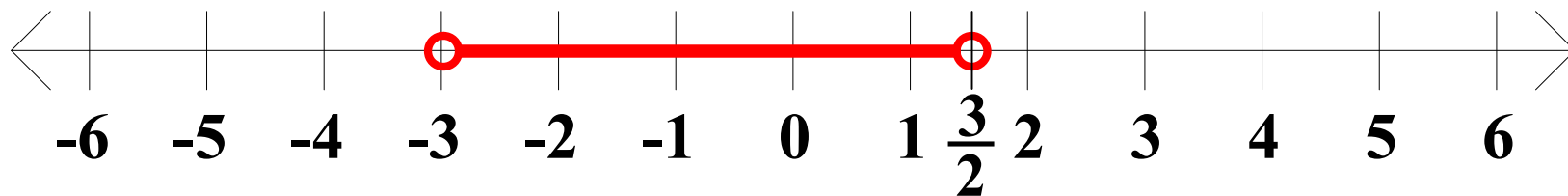
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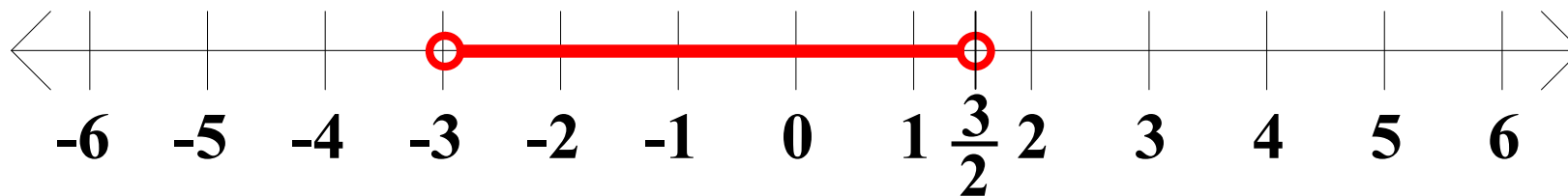
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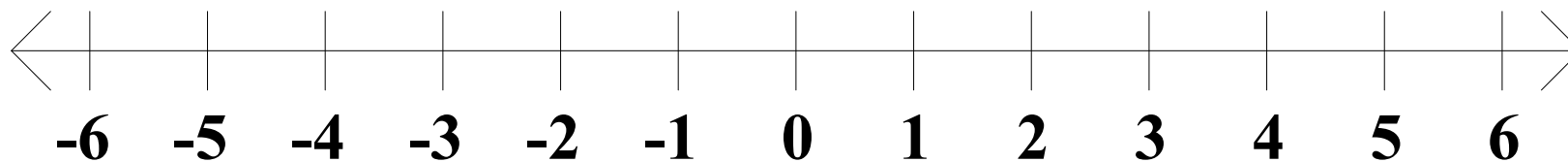
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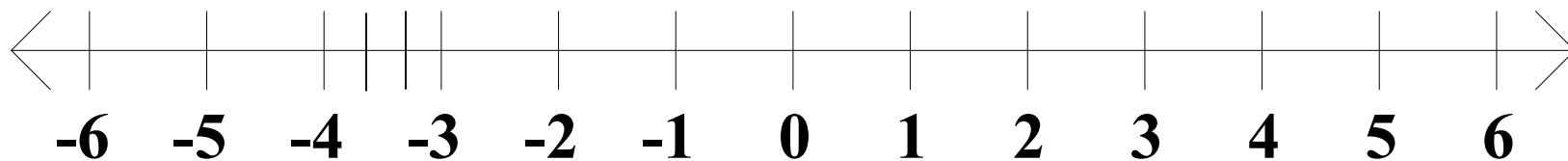
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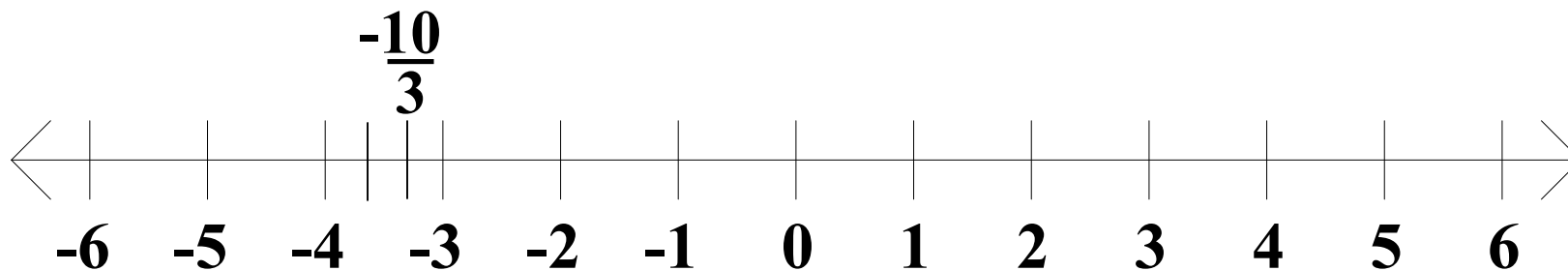
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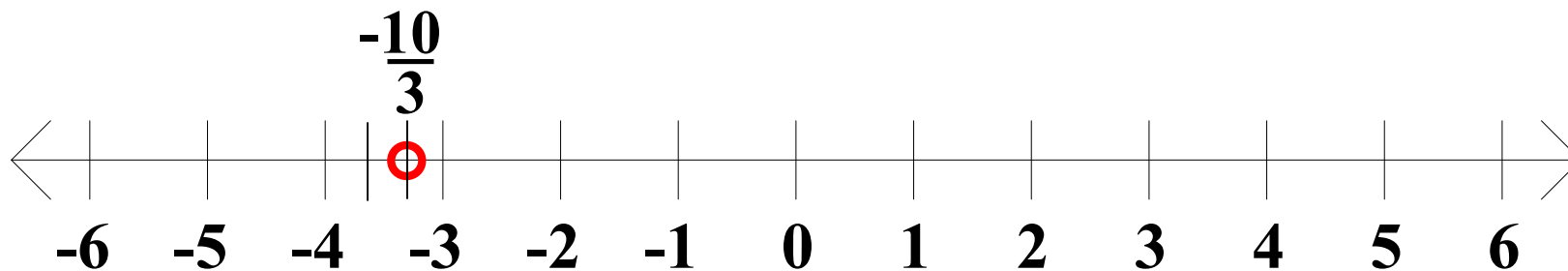
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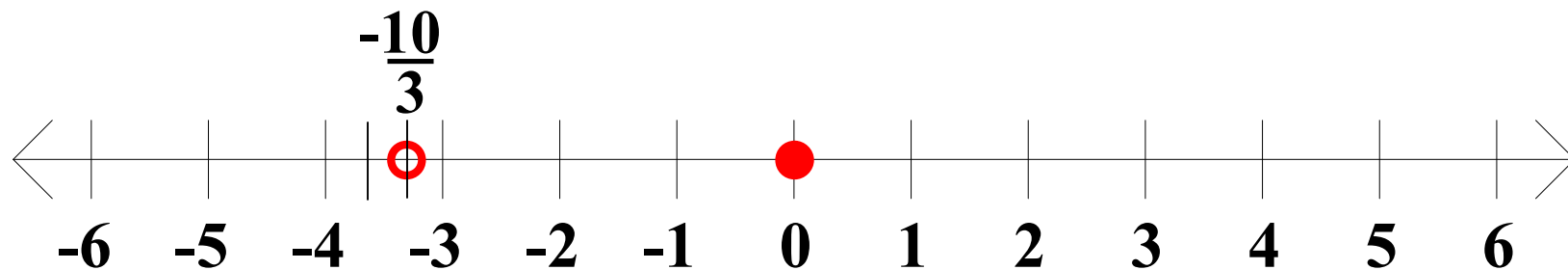
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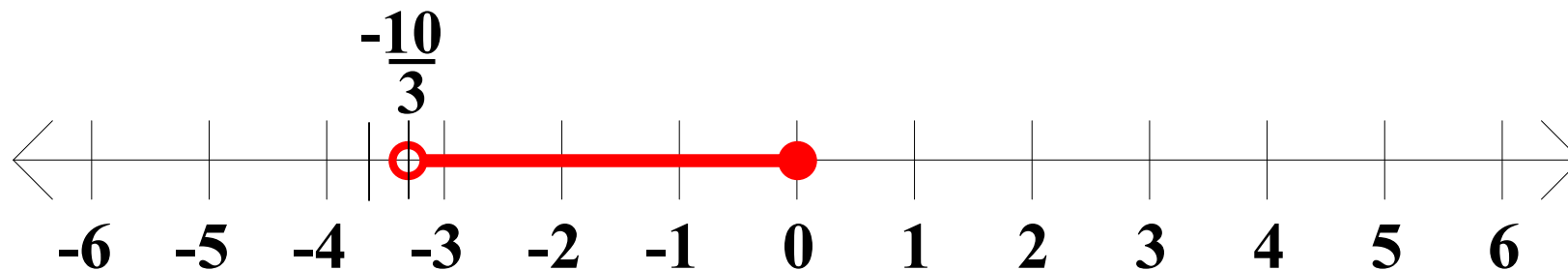
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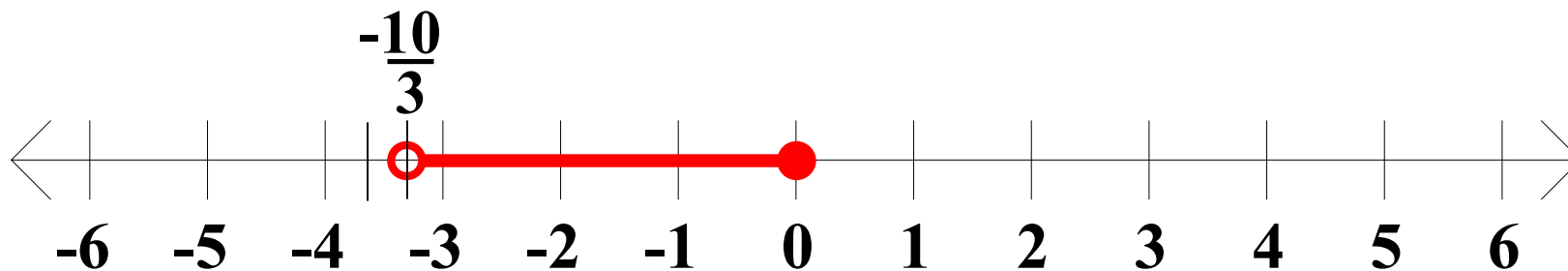
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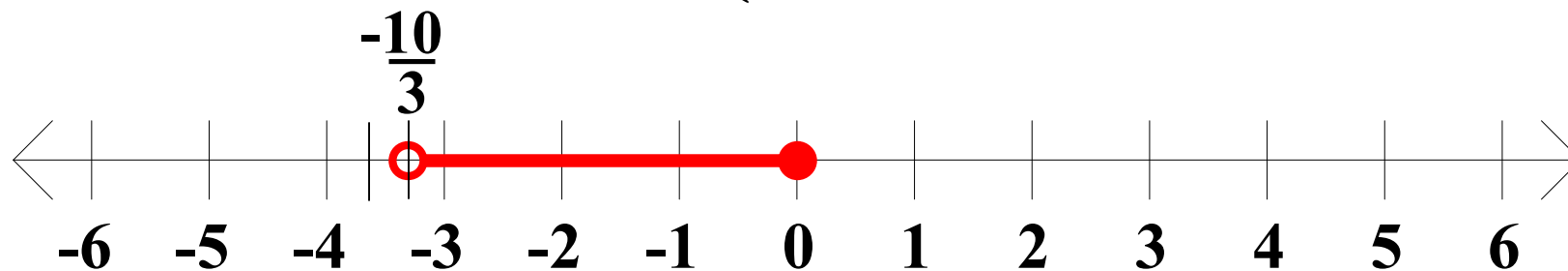
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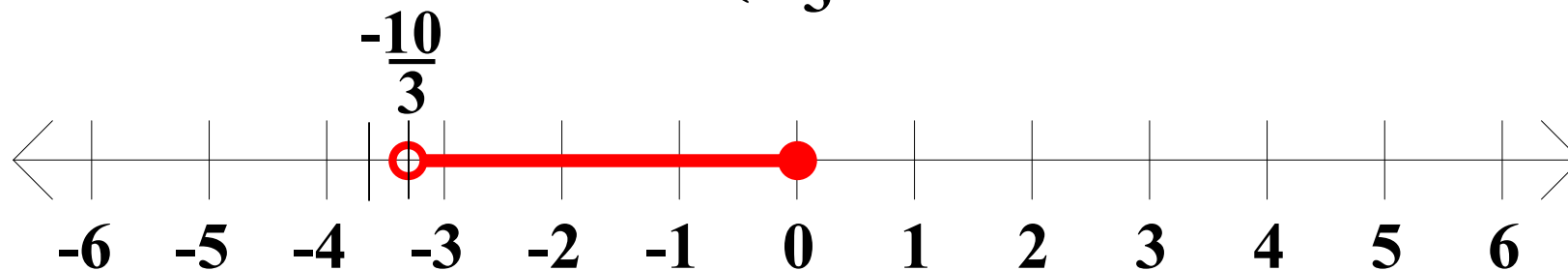
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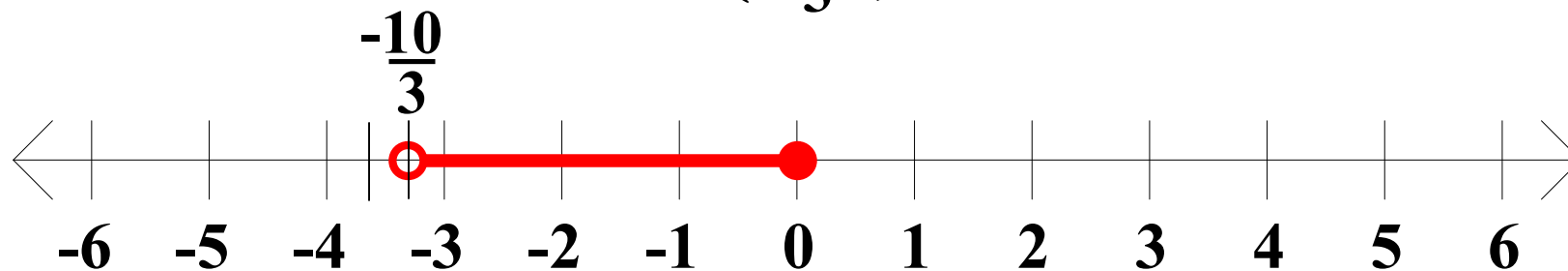
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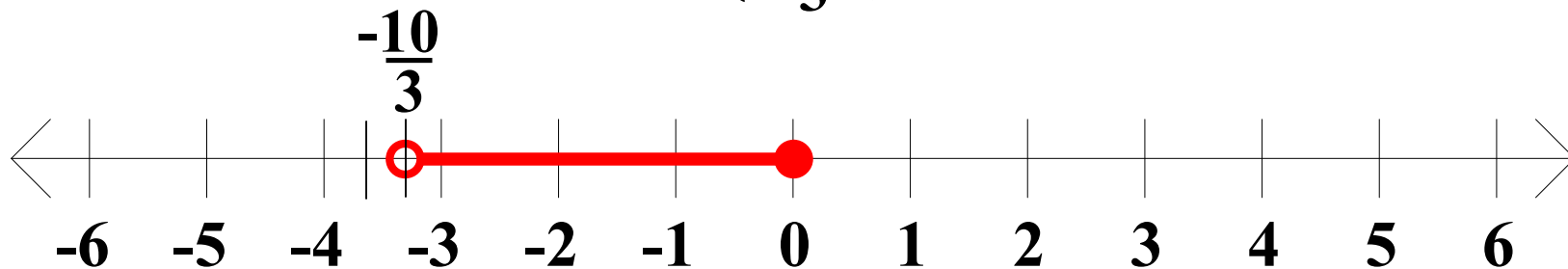
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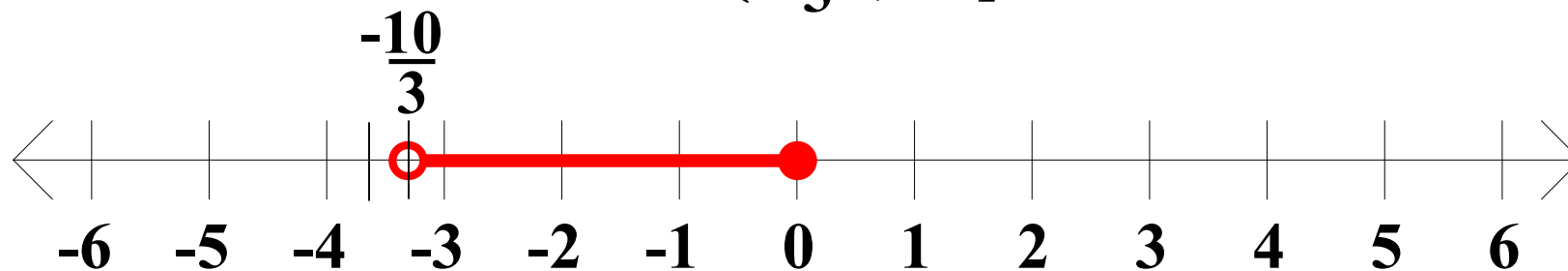
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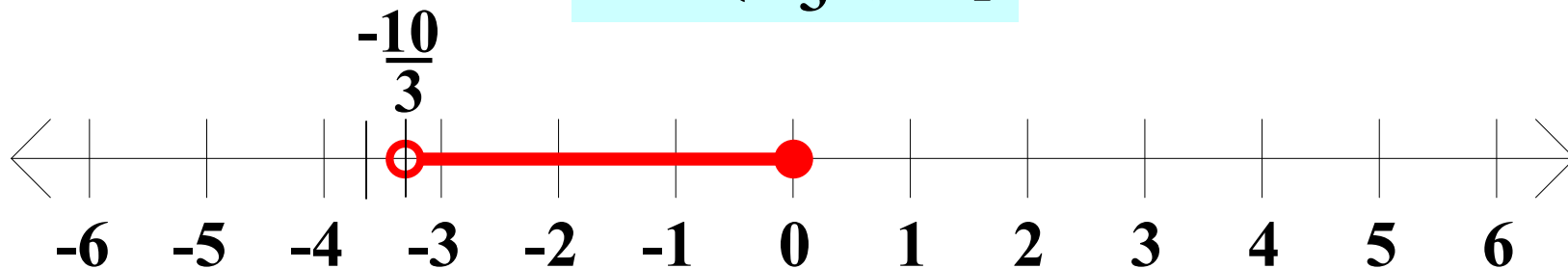
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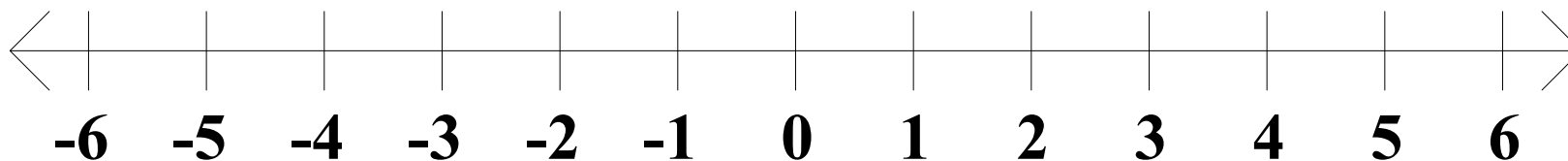
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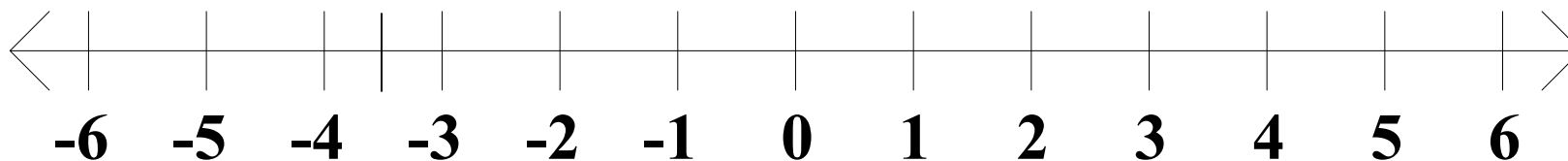
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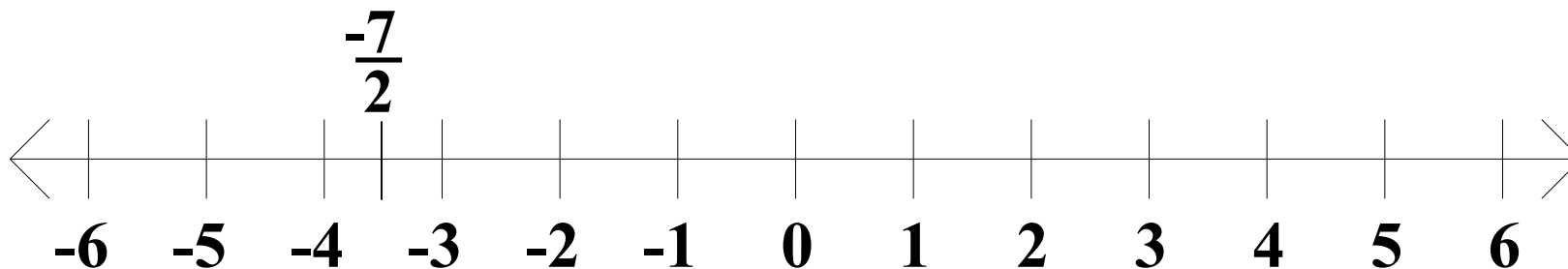
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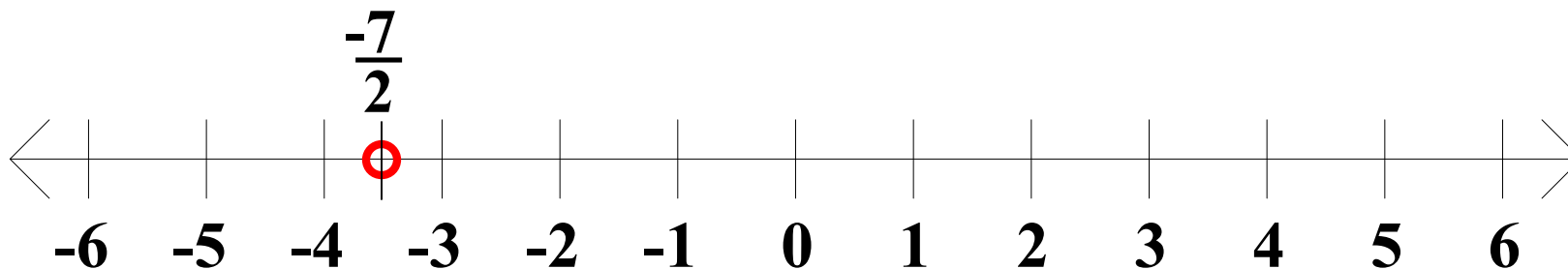
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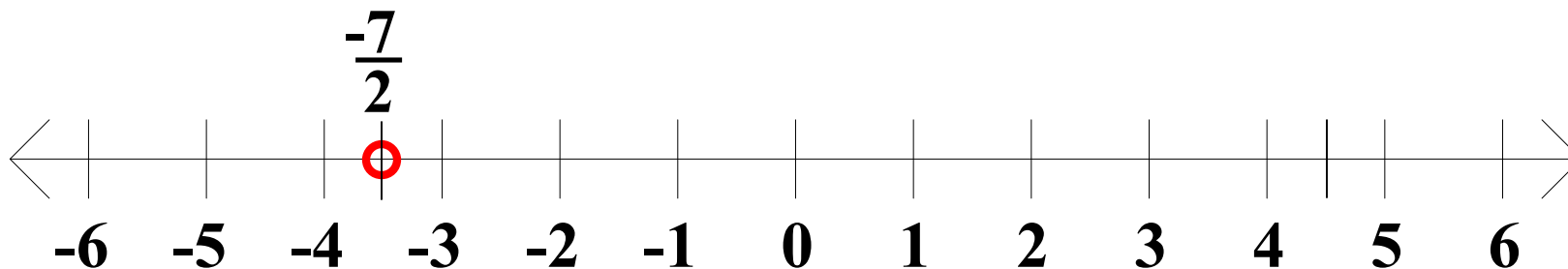
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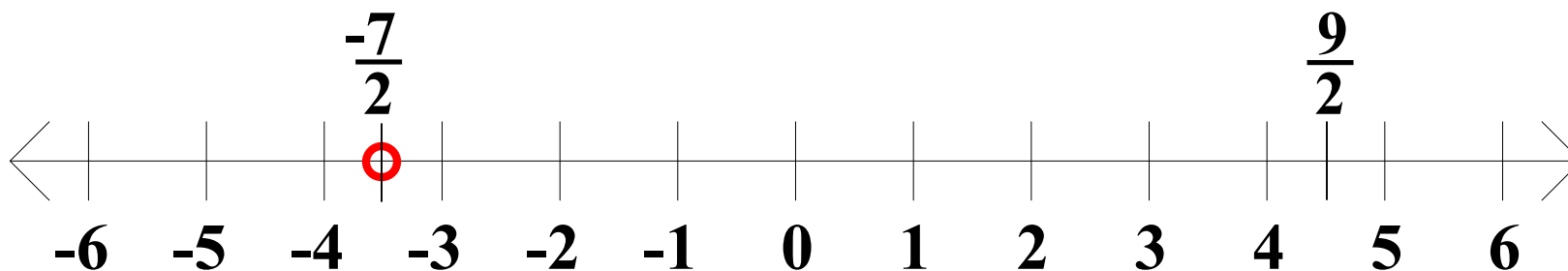
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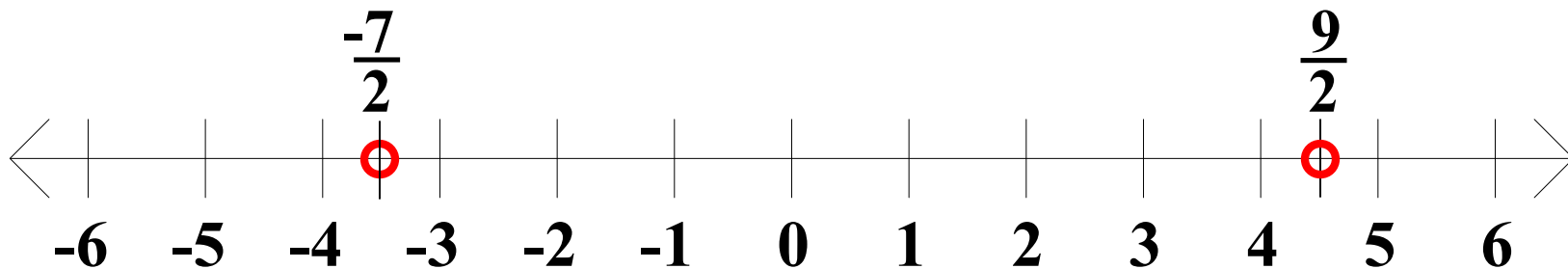
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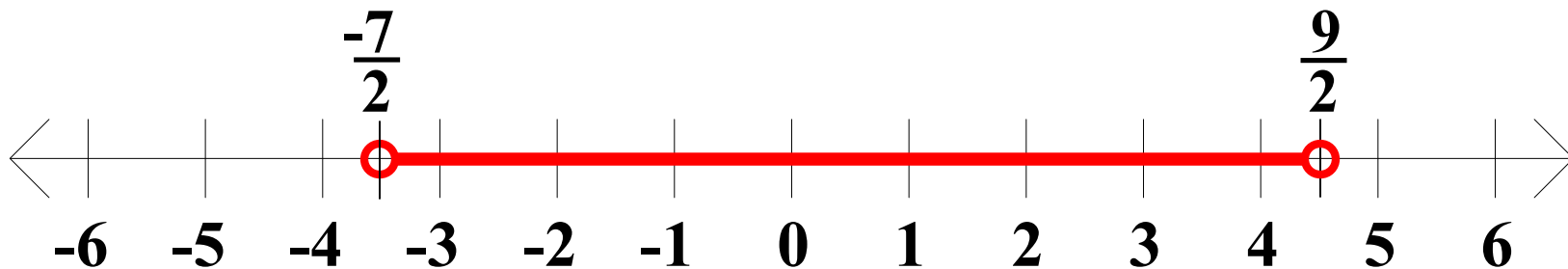
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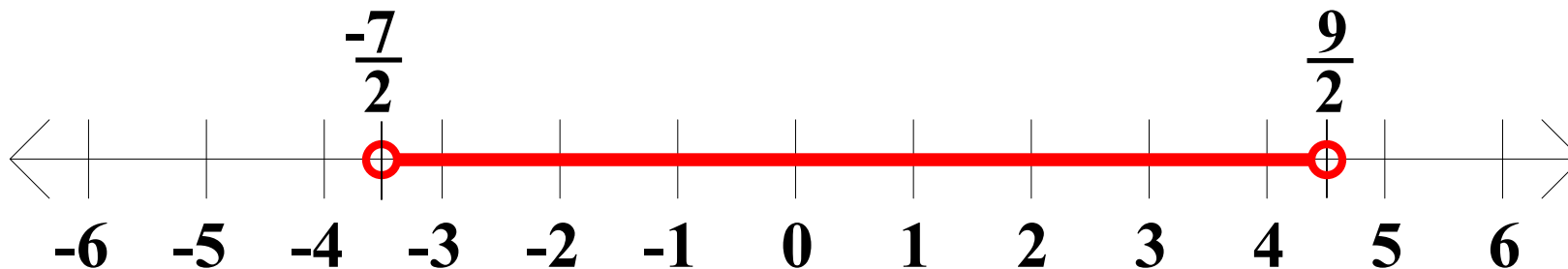
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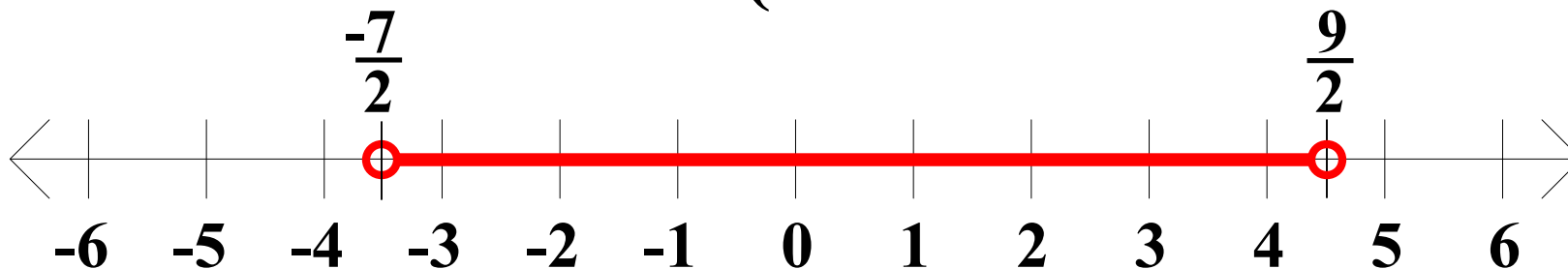
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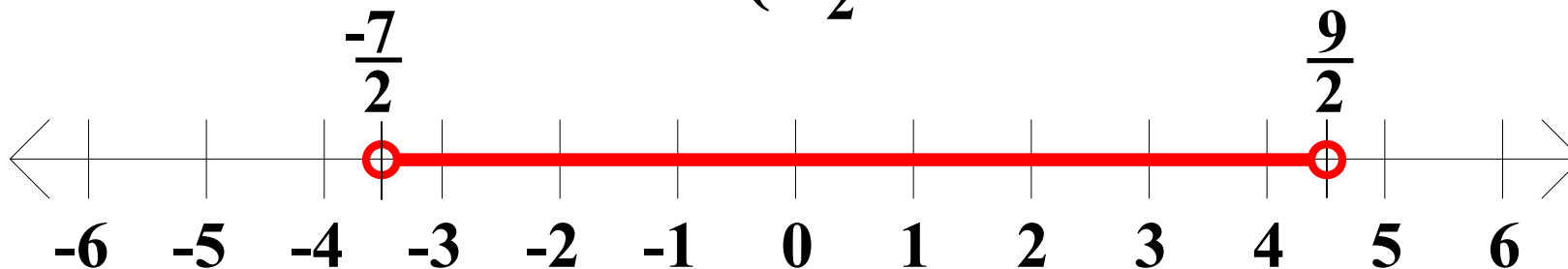
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$$-9 < -2x < 7$$

$$\frac{9}{2} > x > \frac{-7}{2}$$

$$\frac{-7}{2} < x < \frac{9}{2}$$

$$S = \left(\frac{-7}{2} \right.$$



Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

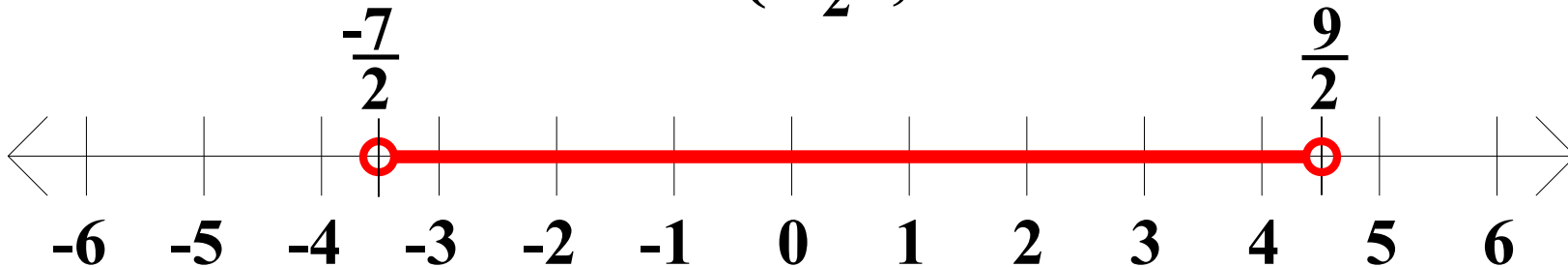
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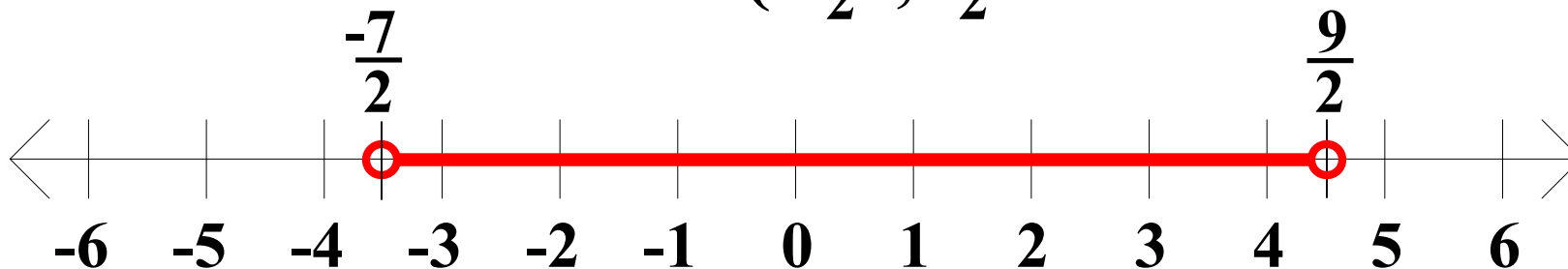
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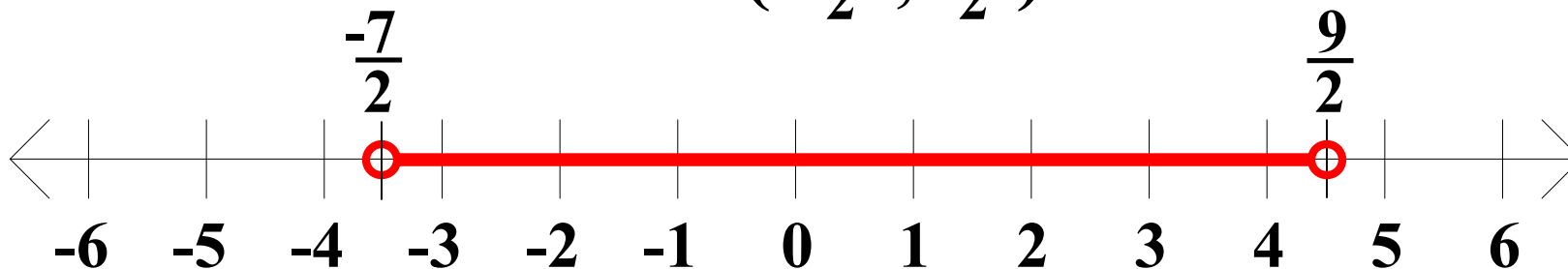
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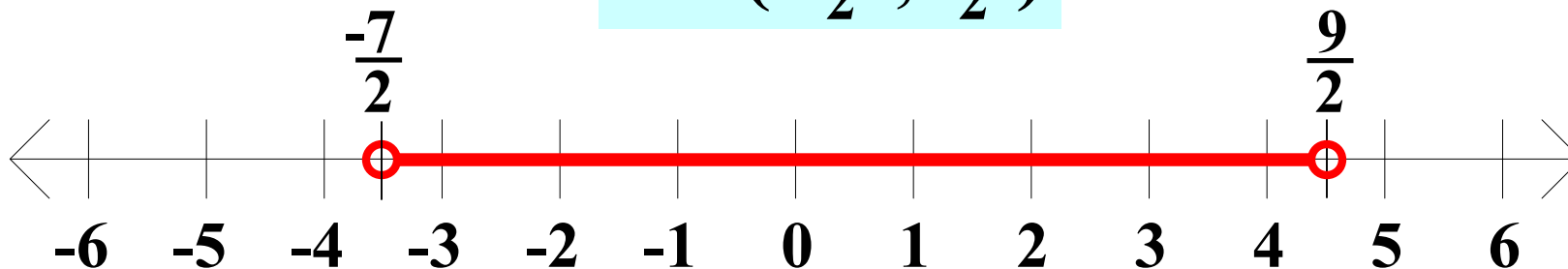
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Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

16. $-1 \leq \frac{2x + 3}{3} \leq 5$

Algebra II Class Worksheet #2 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$16. \quad -1 \leq \frac{2x + 3}{3} \leq 5$$

-3

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Algebra II Class Worksheet #2 Unit 1

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$$16. \quad -1 \leq \frac{2x + 3}{3} \leq 5$$

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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$16. \quad -1 \leq \frac{2x + 3}{3} \leq 5$$

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Algebra II Class Worksheet #2 Unit 1

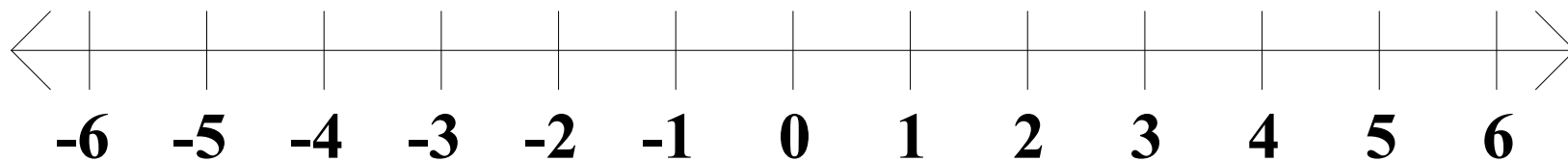
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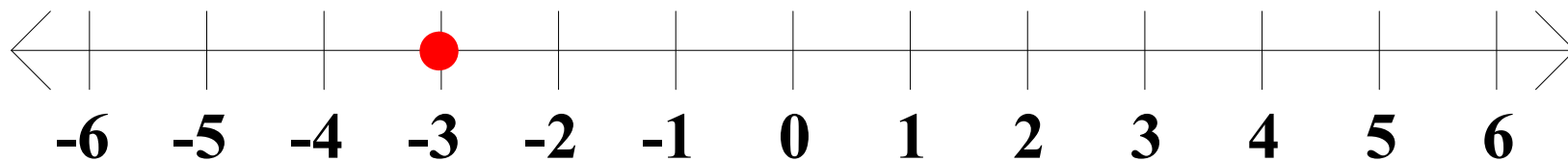
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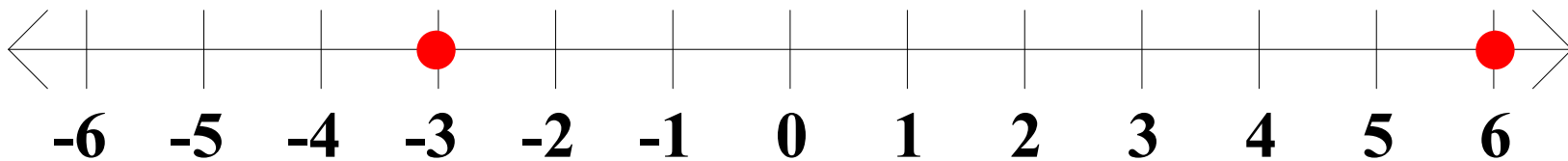
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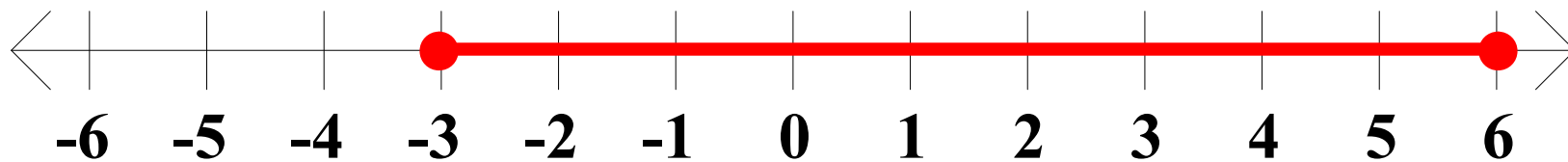
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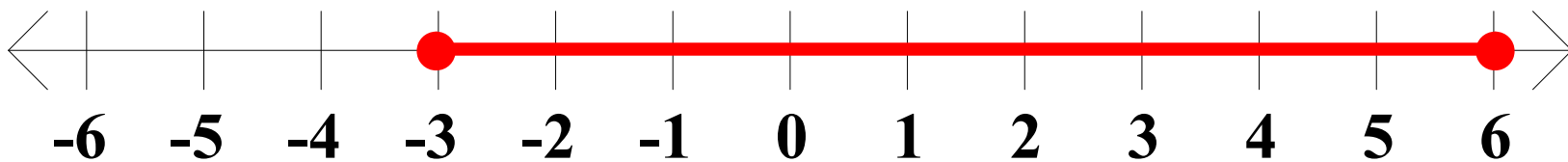
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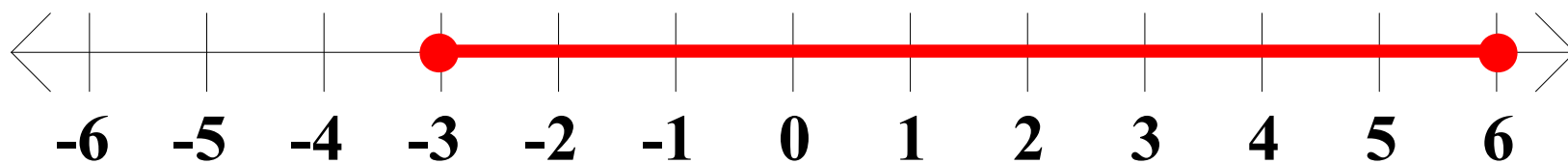
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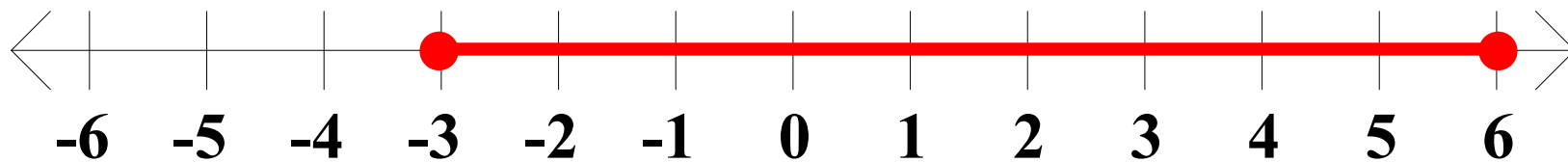
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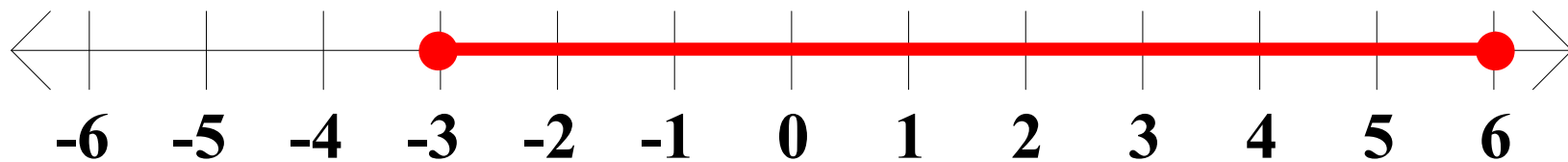
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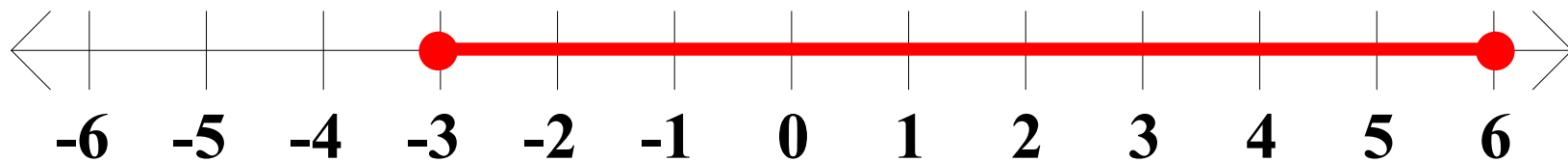
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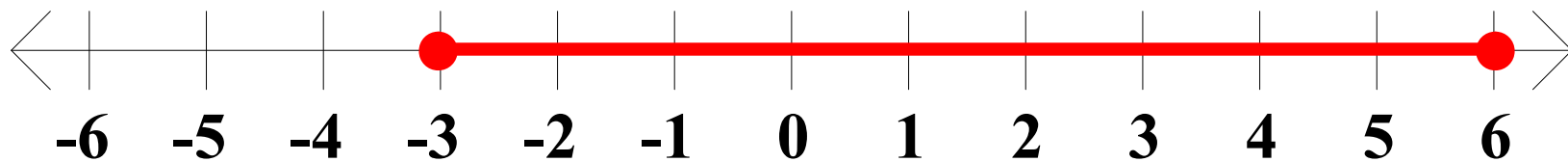
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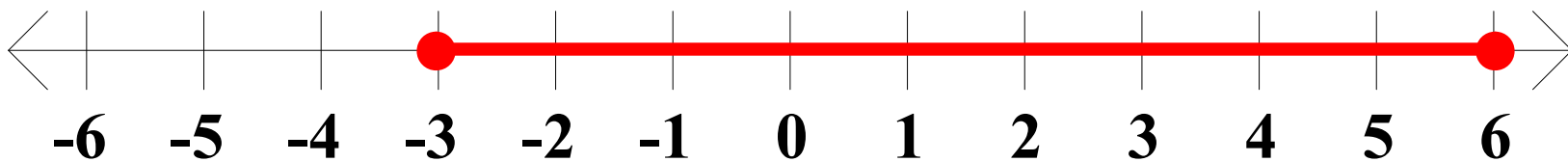
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Algebra II Class Worksheet #2 Unit 1

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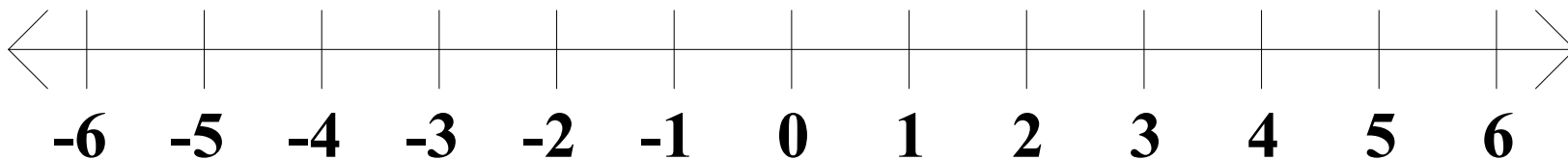
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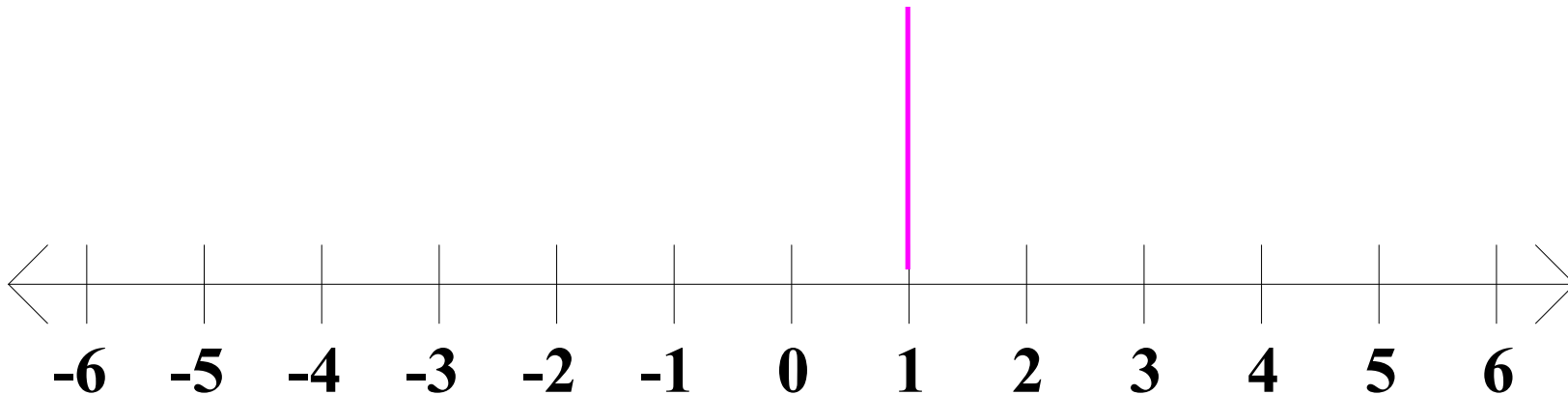
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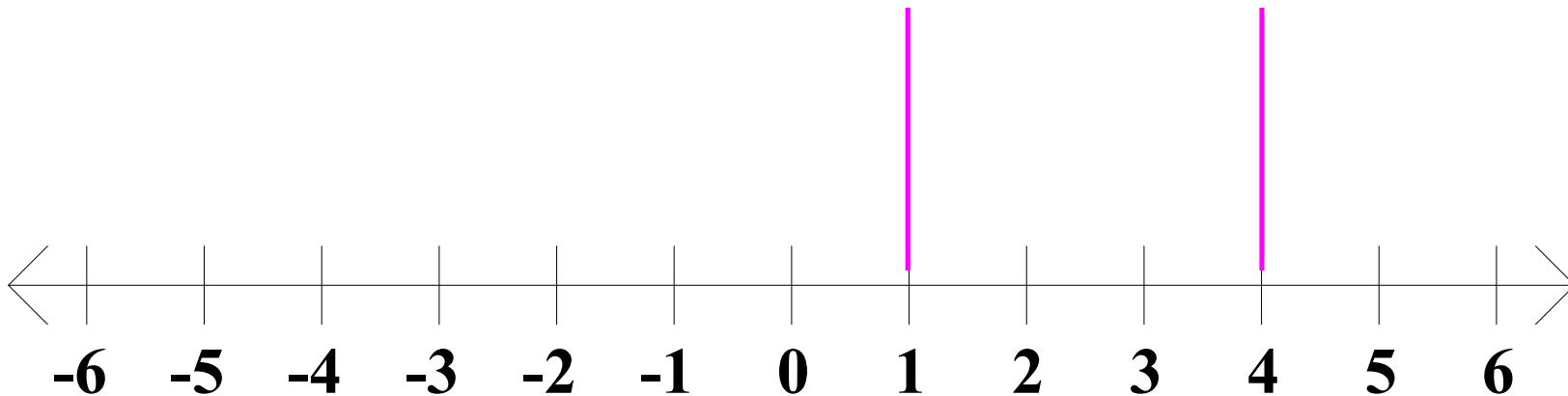
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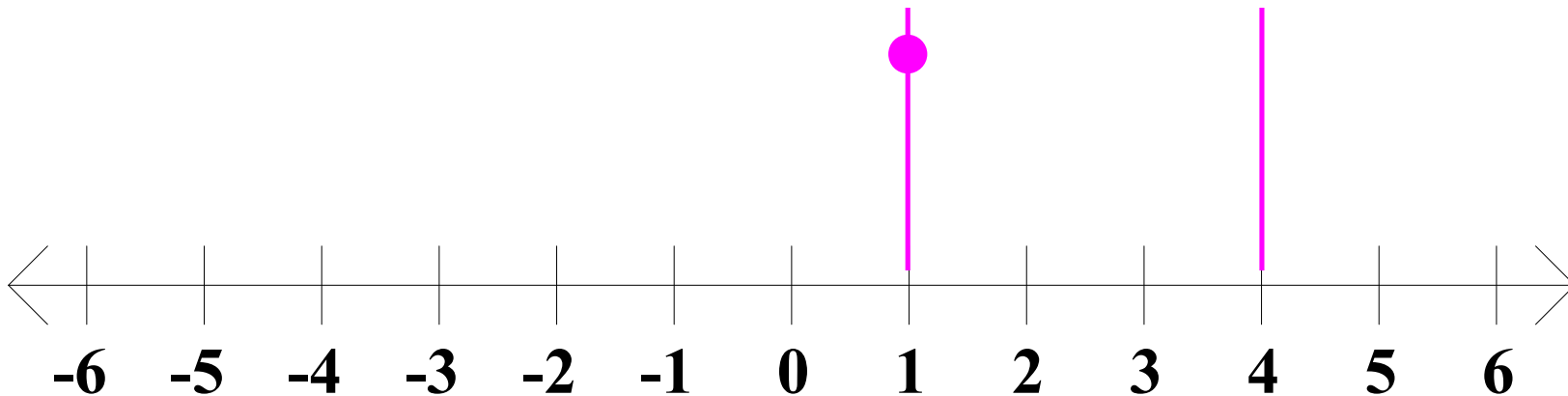
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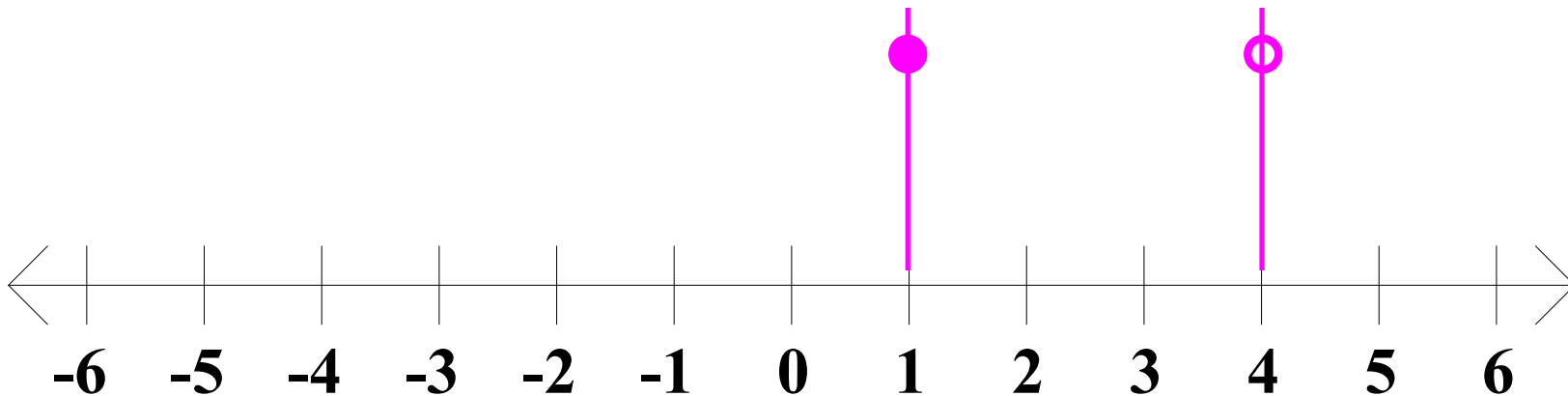
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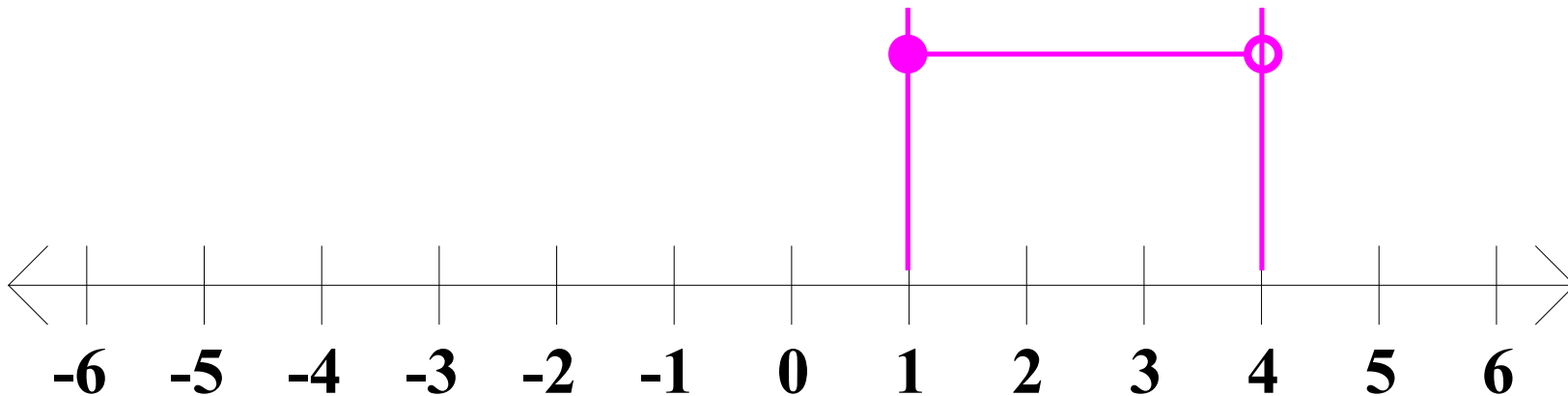
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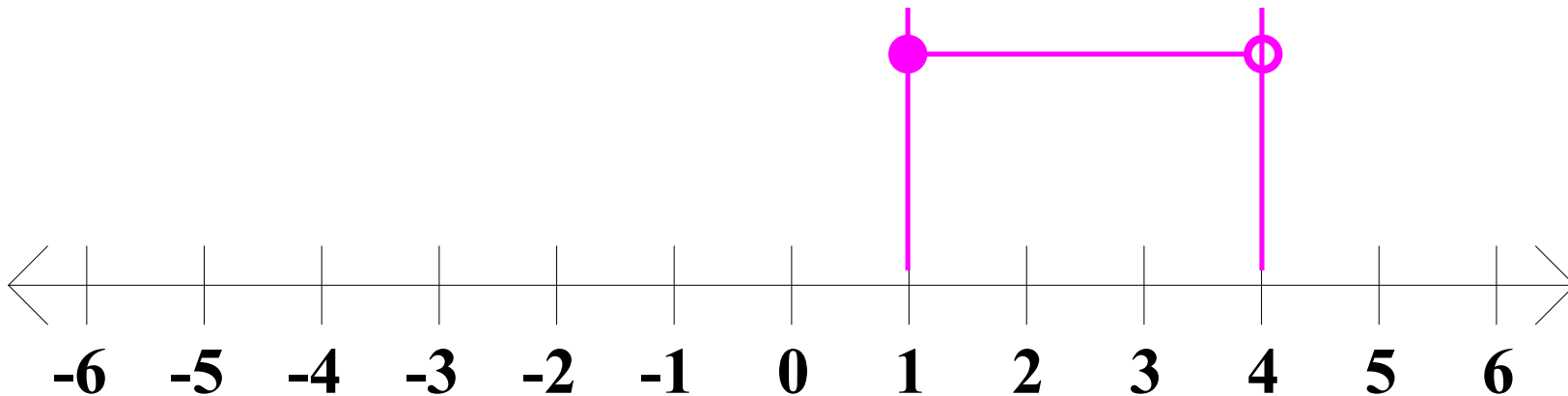
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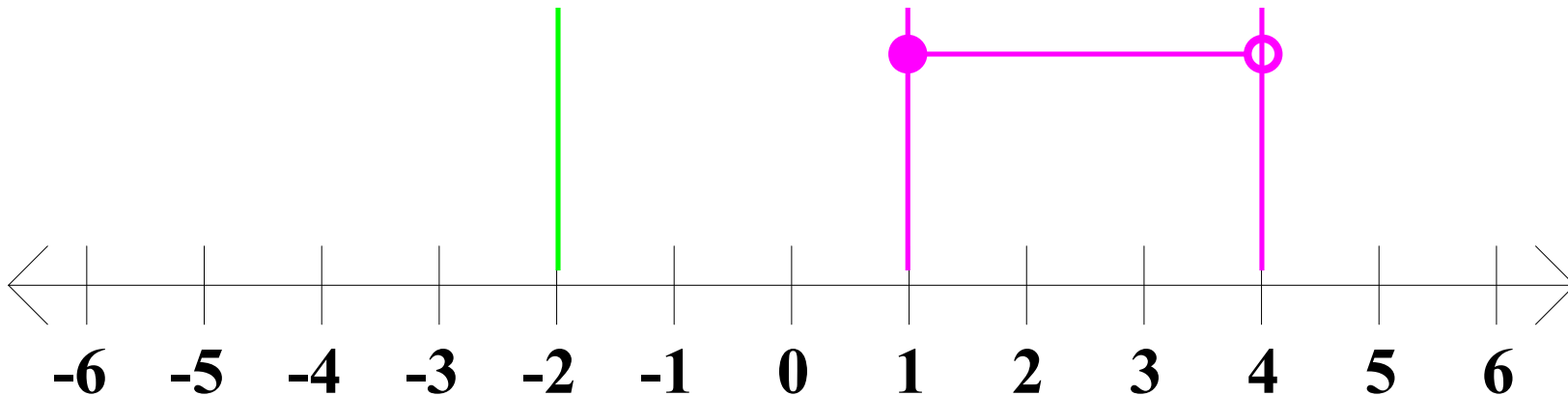
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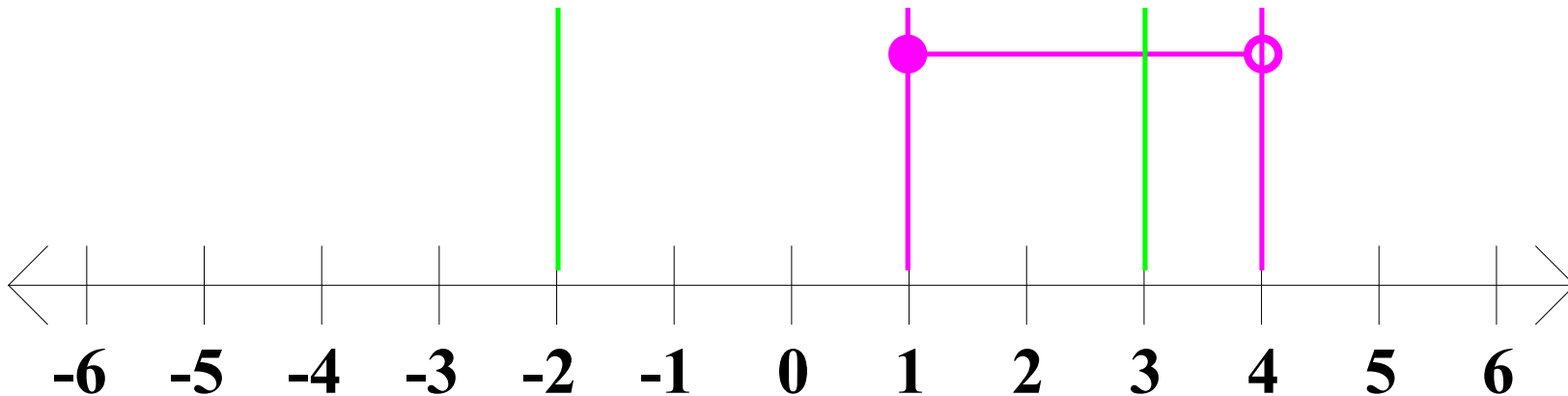
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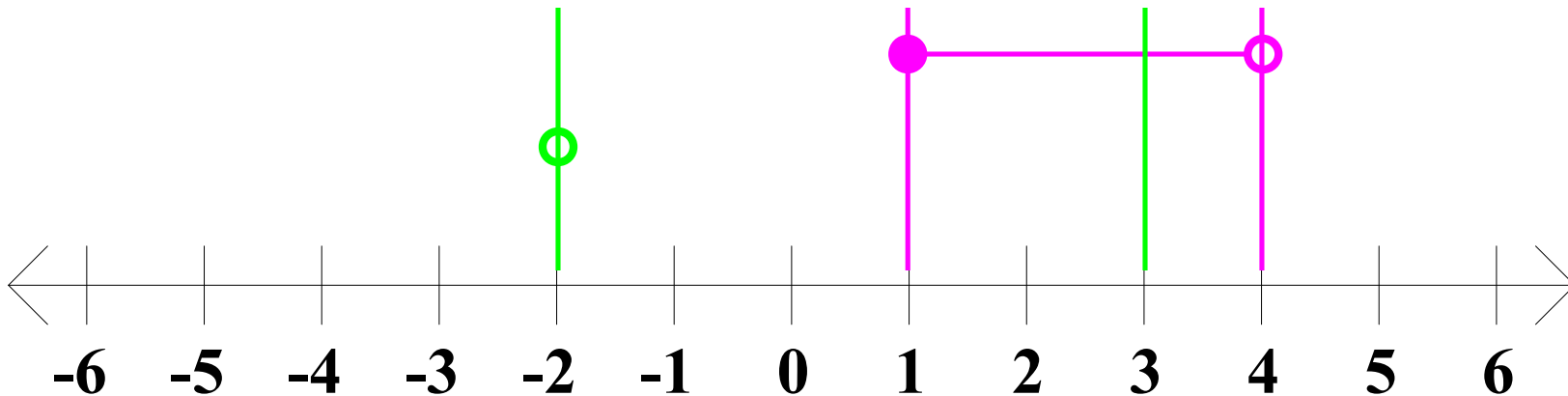
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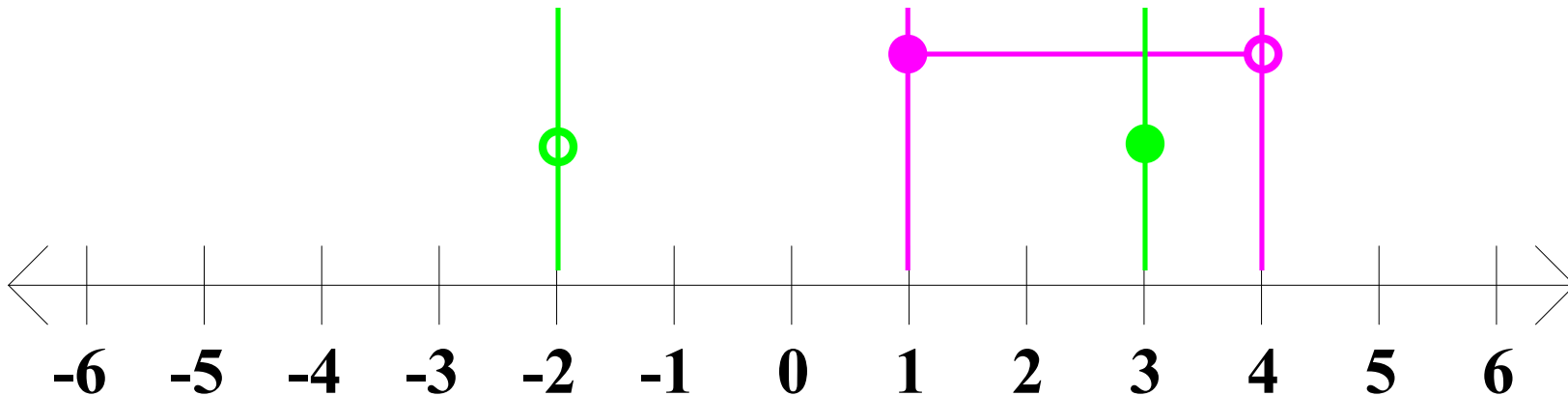
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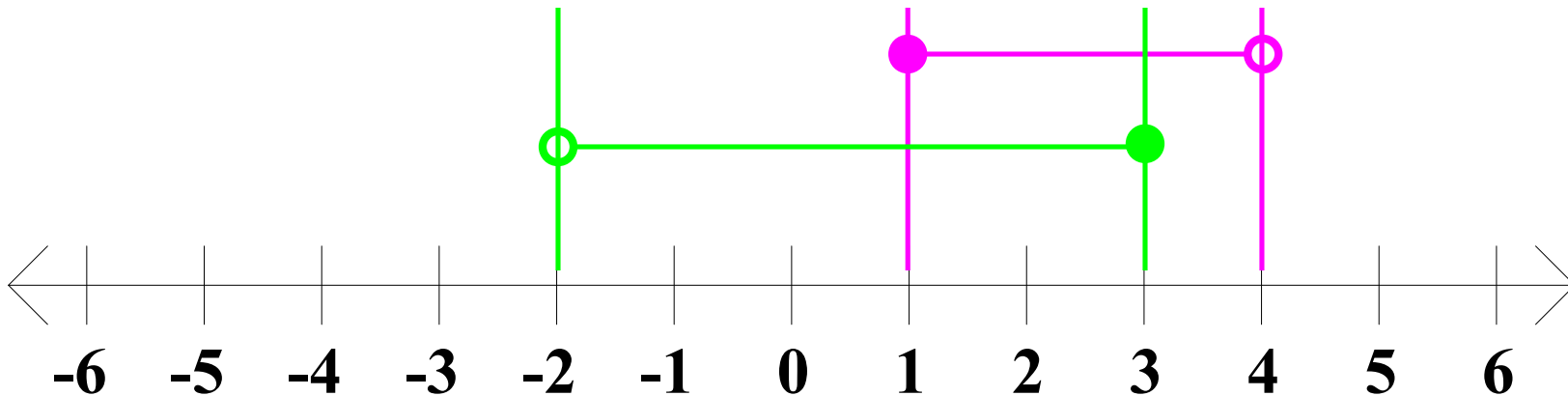
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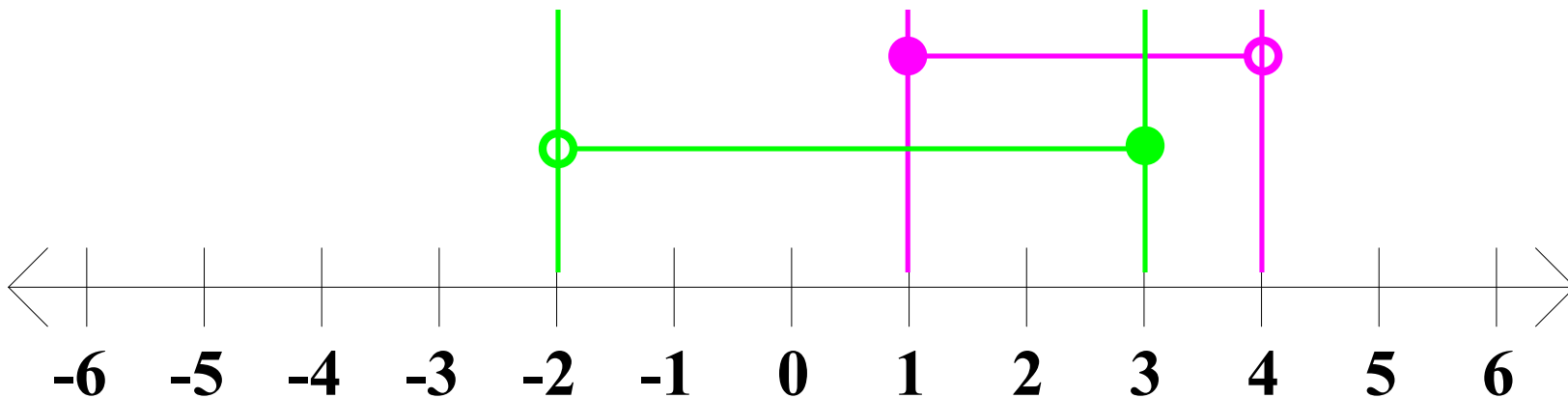
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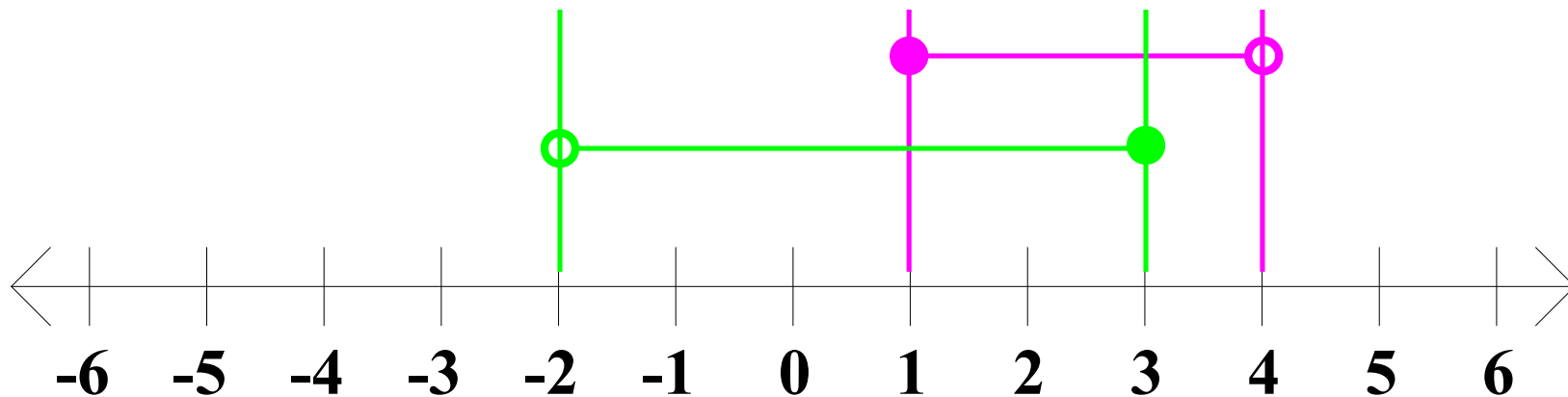


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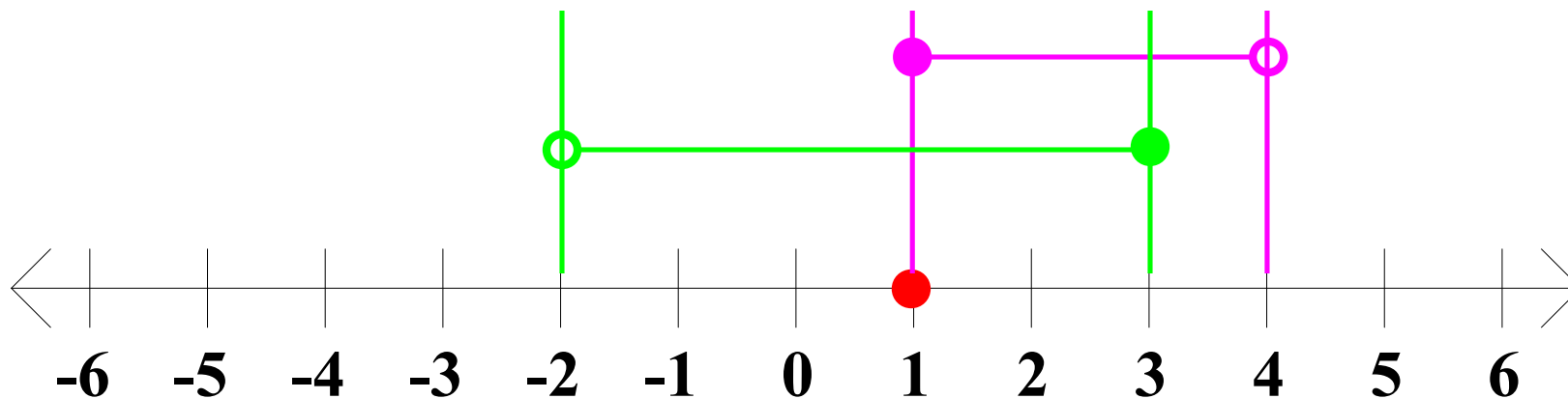


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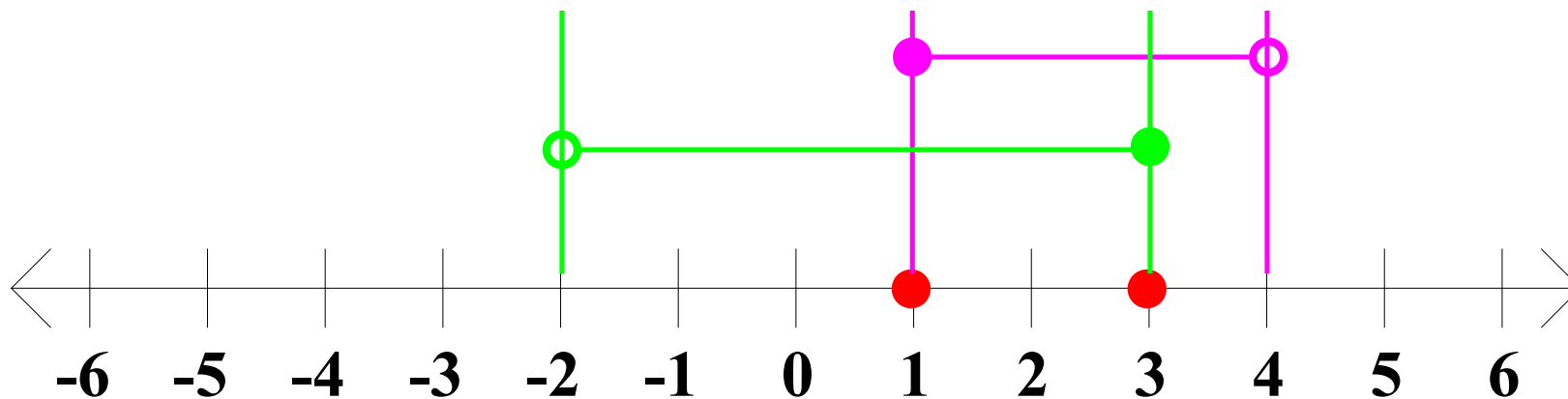


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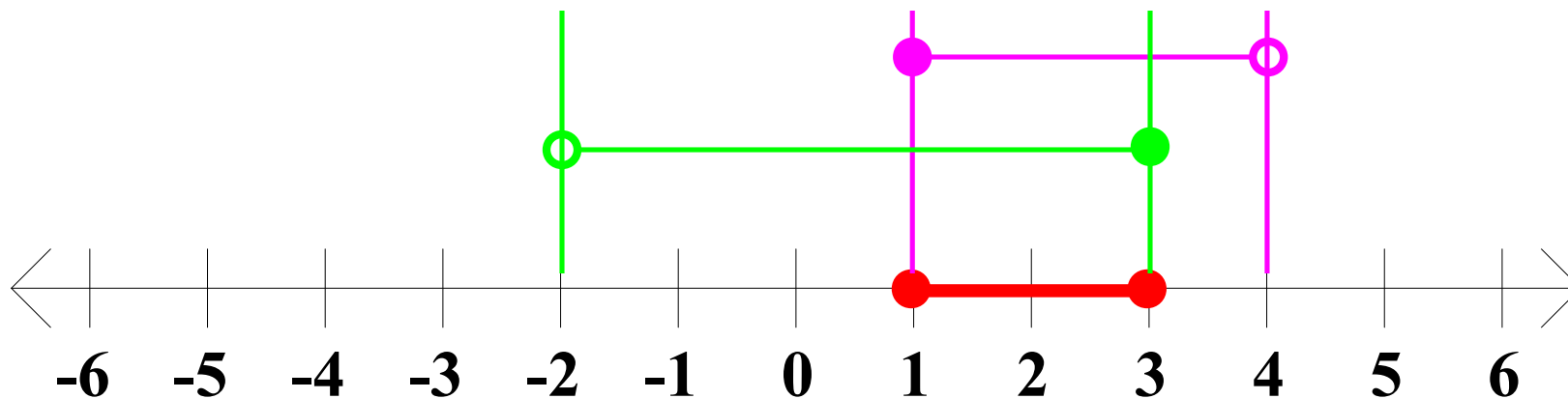


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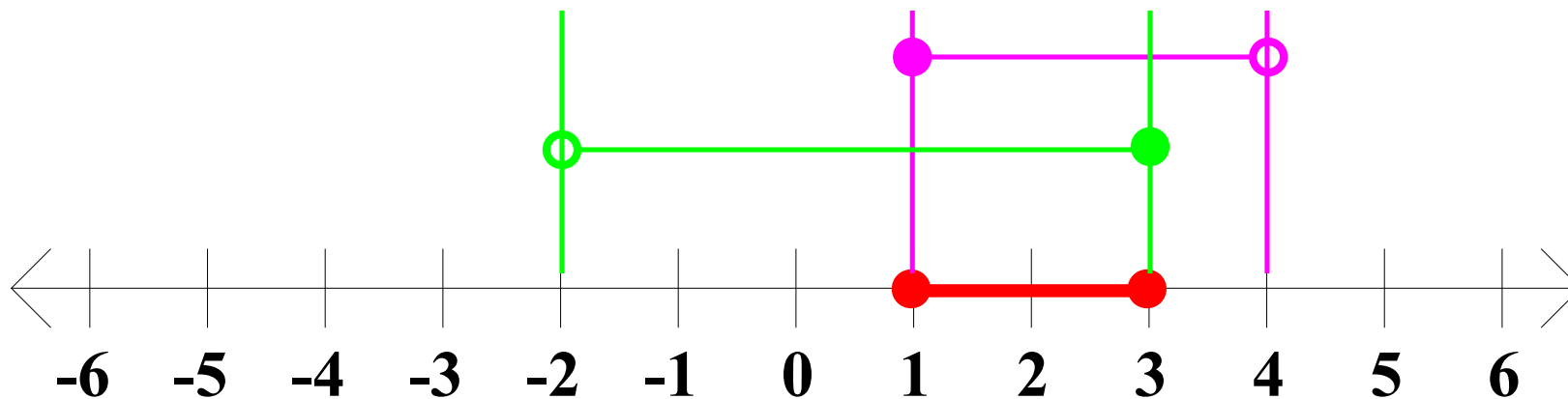


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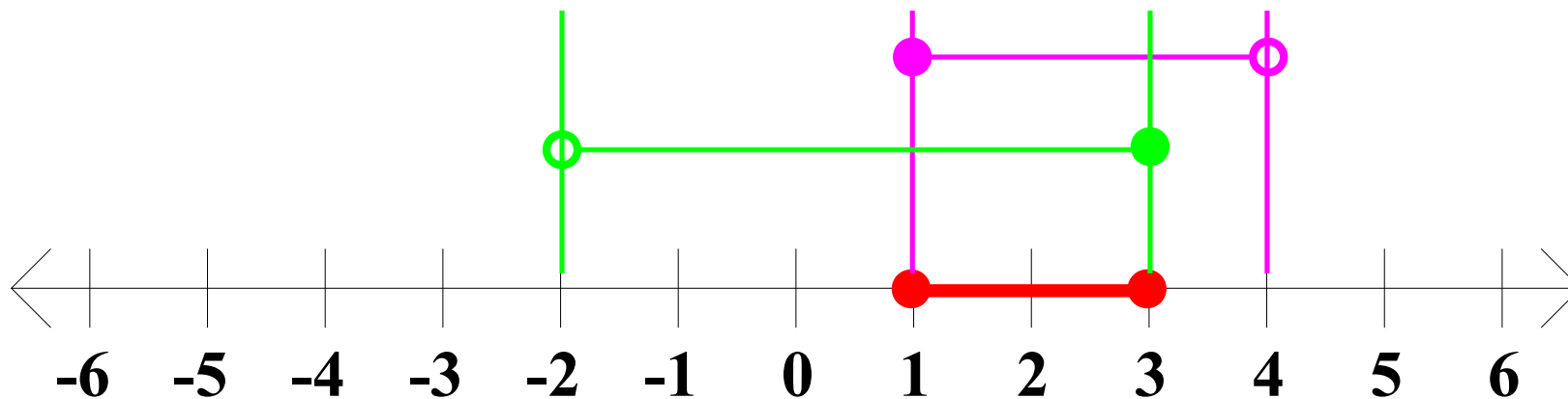


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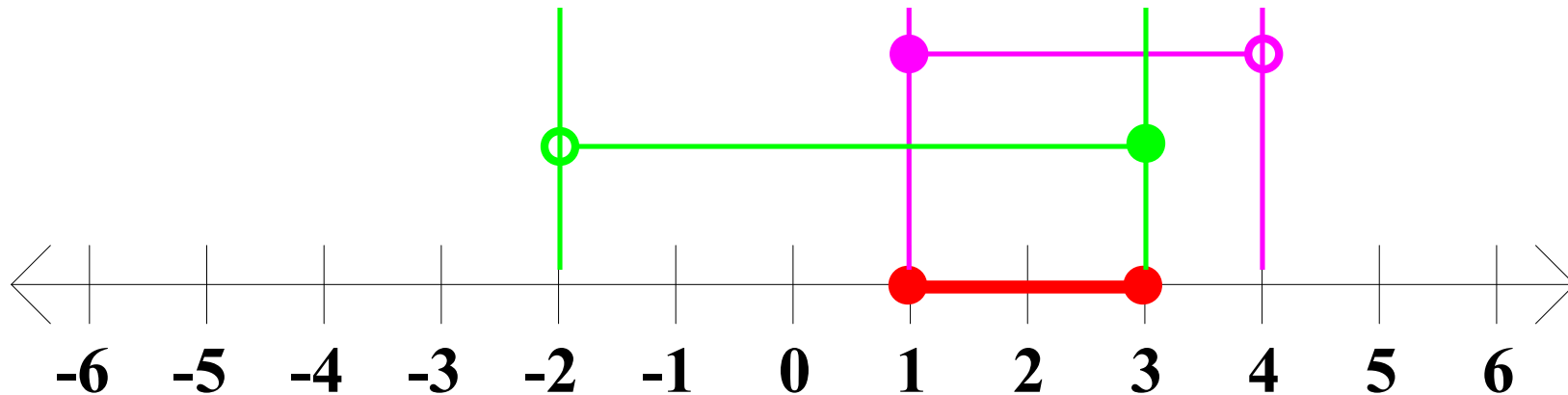


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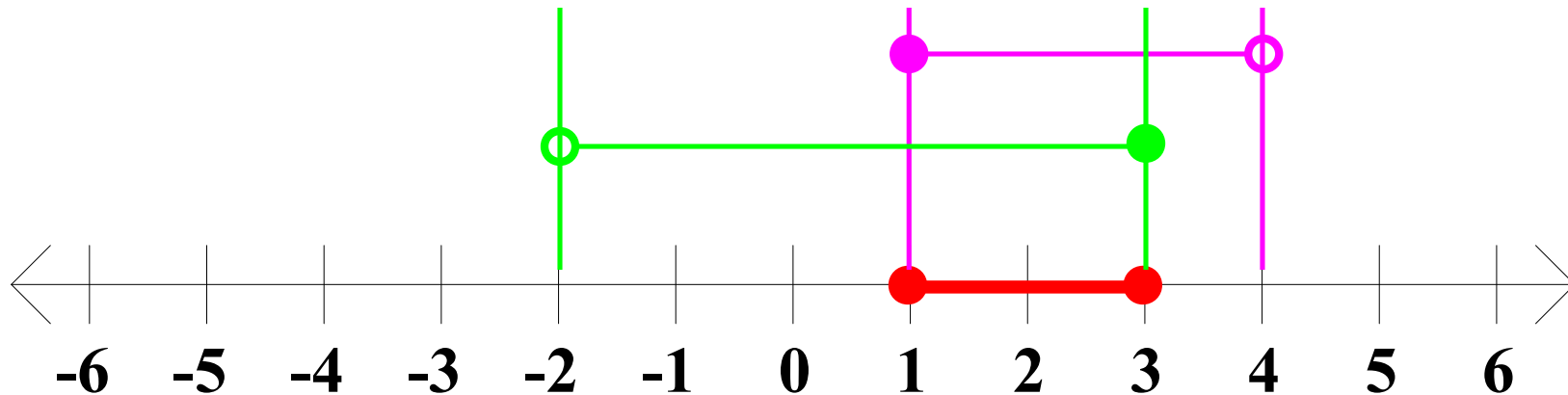


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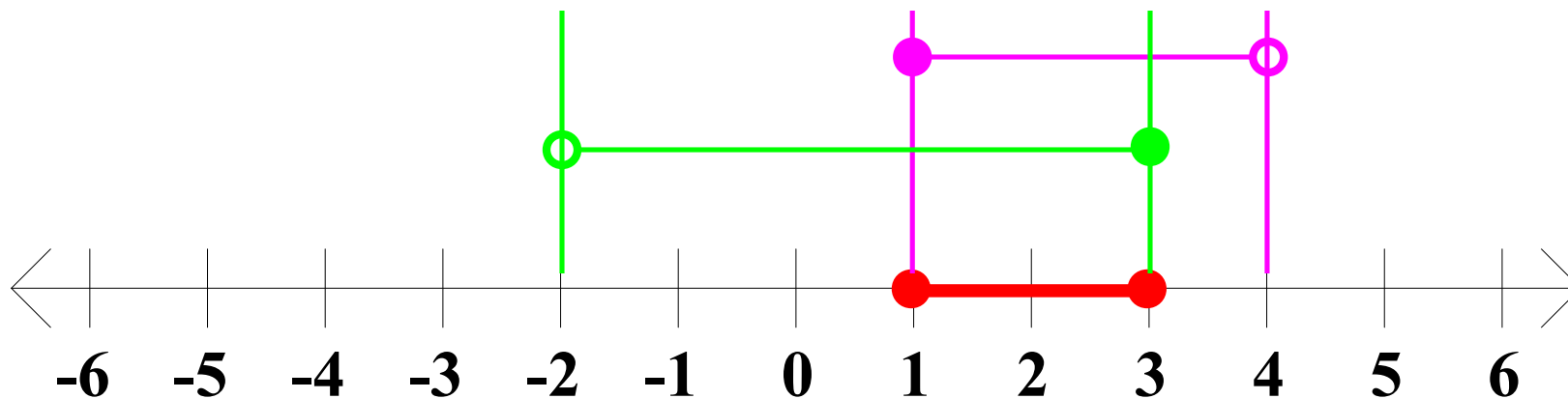


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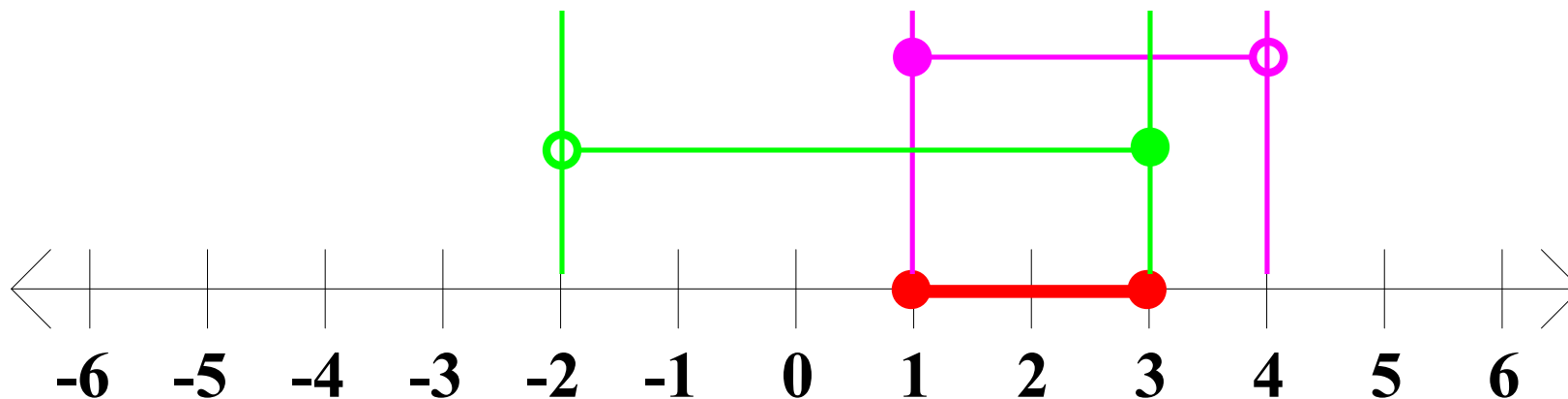


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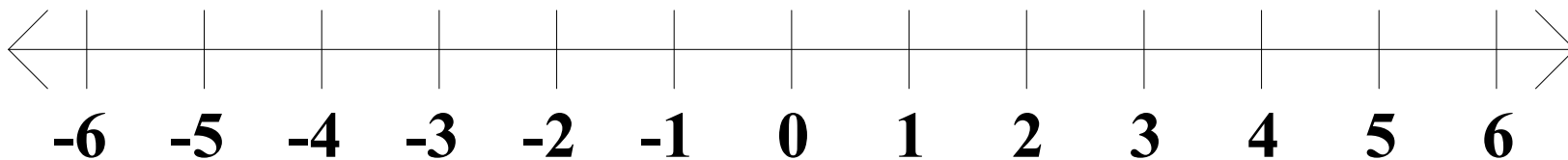
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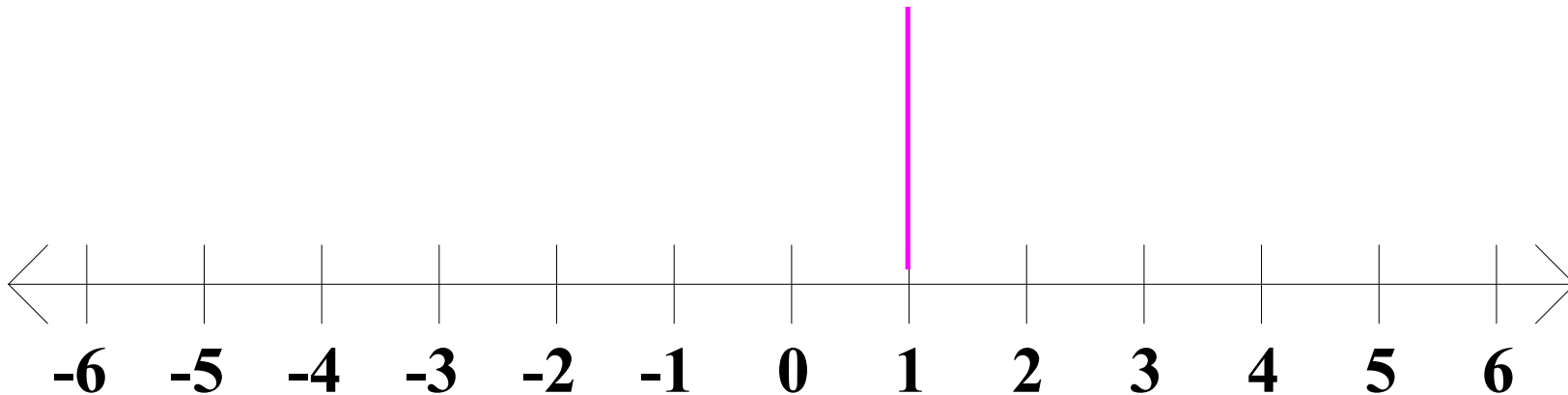
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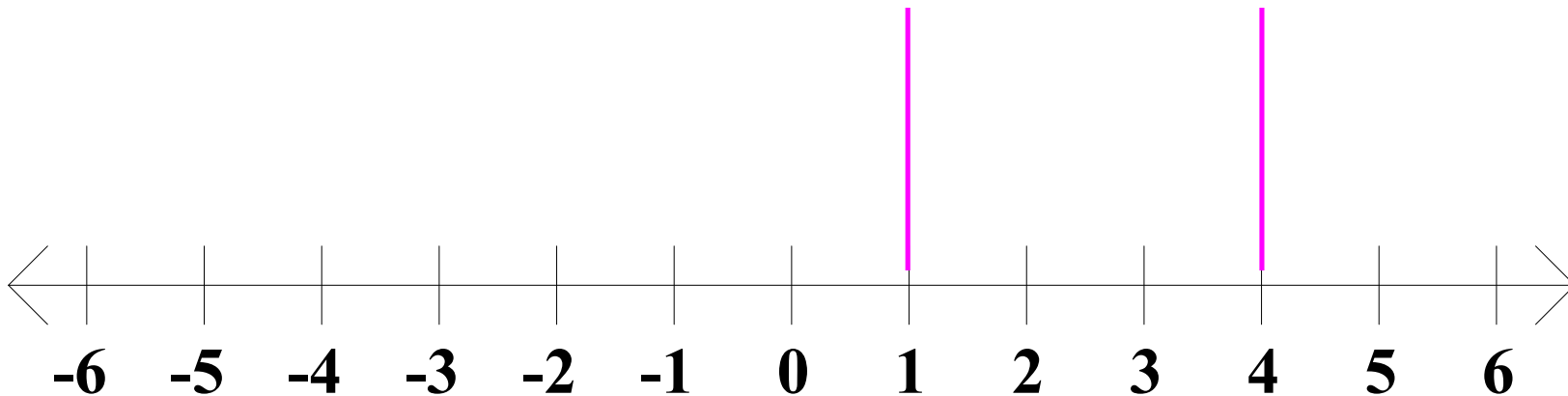
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Algebra II Class Worksheet #2 Unit 1

Express each of the following as a single interval.

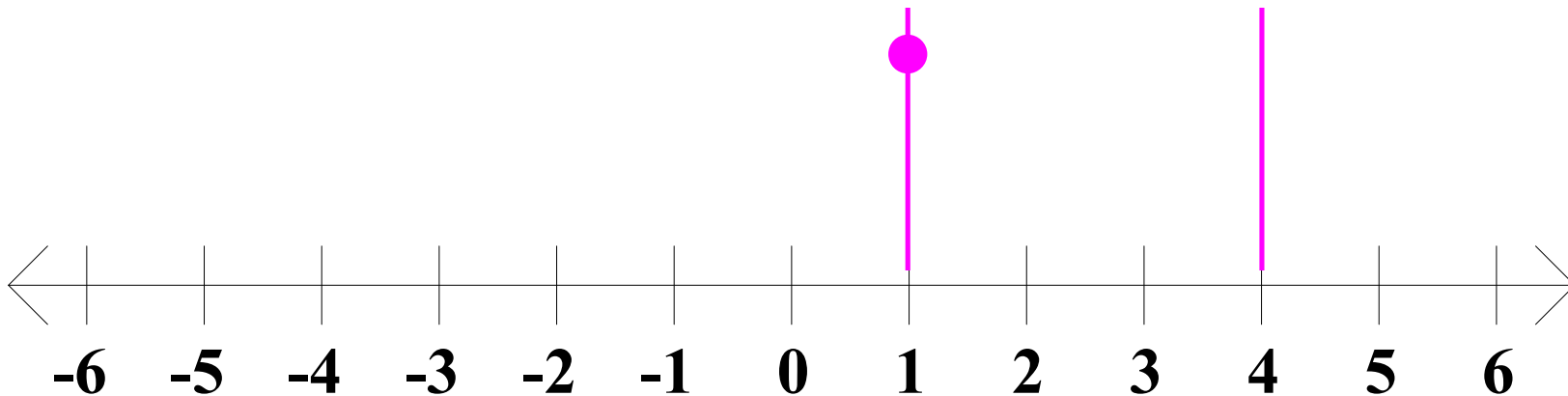
18. $[1, 4) \cup (-2, 3] = \underline{\hspace{2cm}}$



Algebra II Class Worksheet #2 Unit 1

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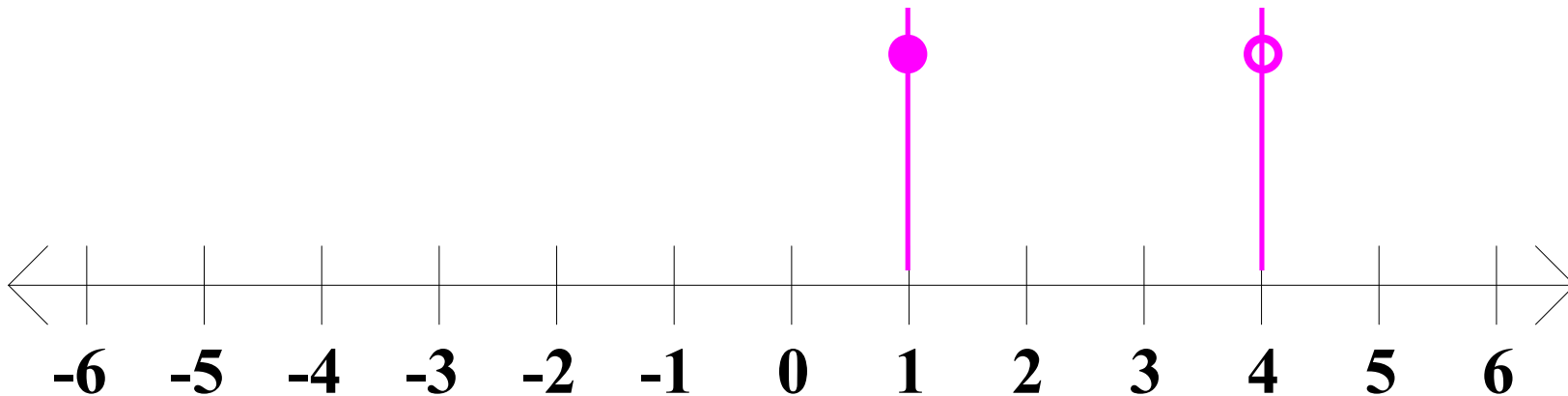
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Algebra II Class Worksheet #2 Unit 1

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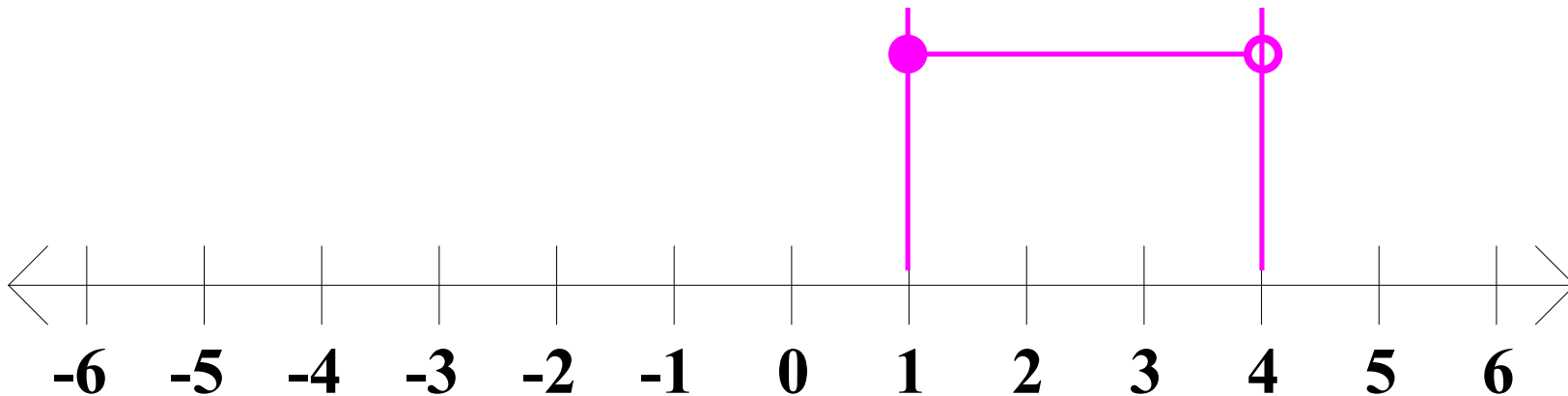
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Algebra II Class Worksheet #2 Unit 1

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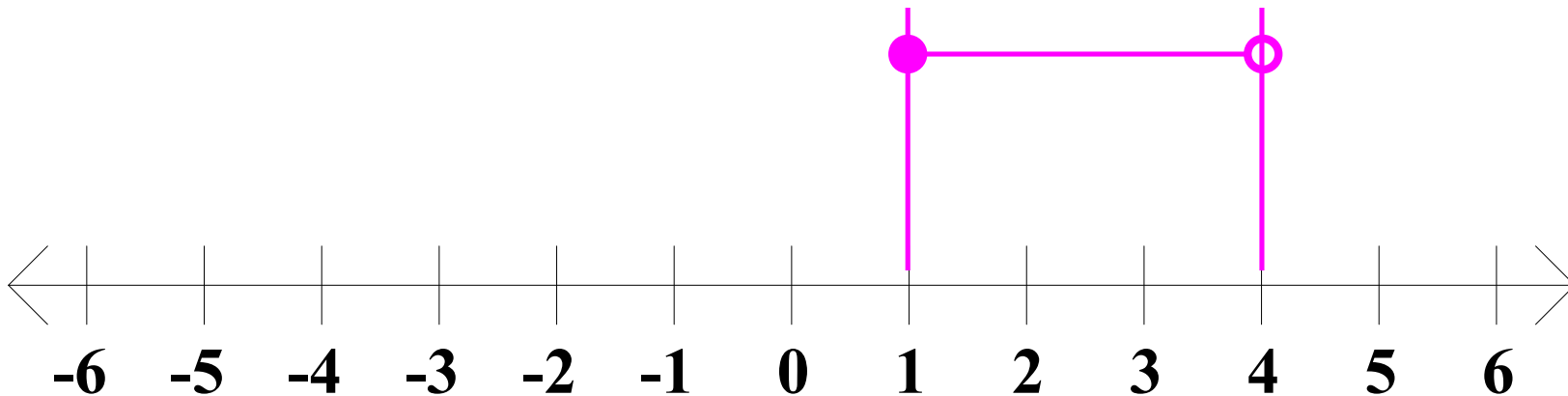
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Algebra II Class Worksheet #2 Unit 1

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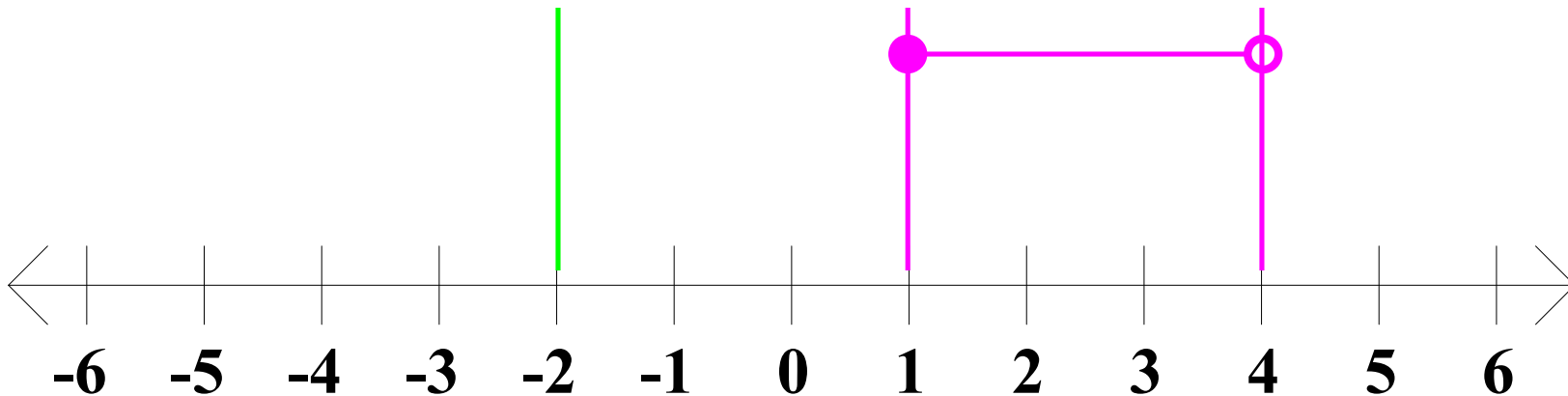
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Algebra II Class Worksheet #2 Unit 1

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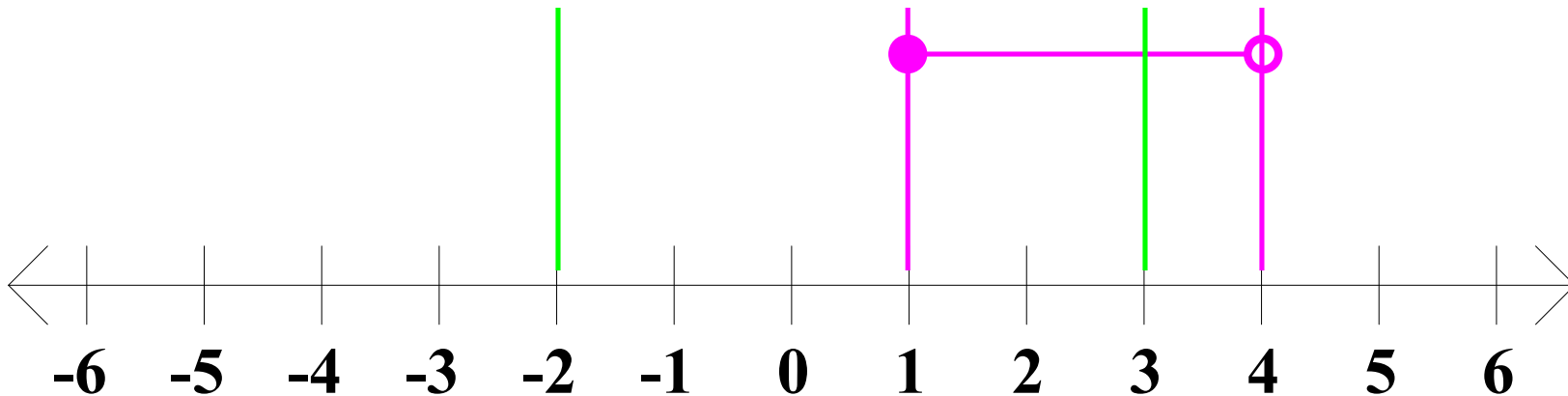
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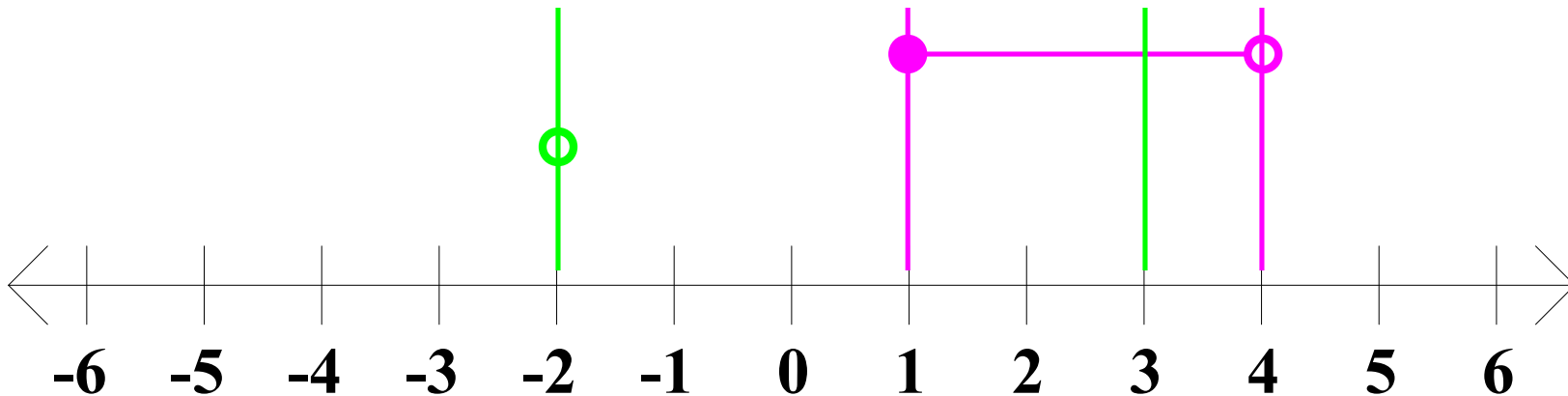
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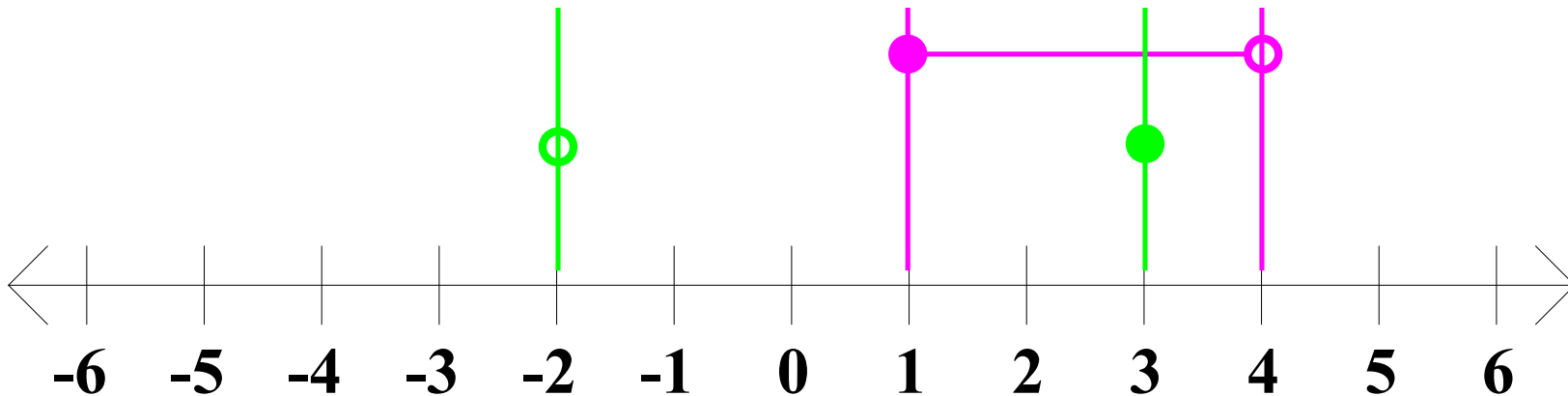
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Algebra II Class Worksheet #2 Unit 1

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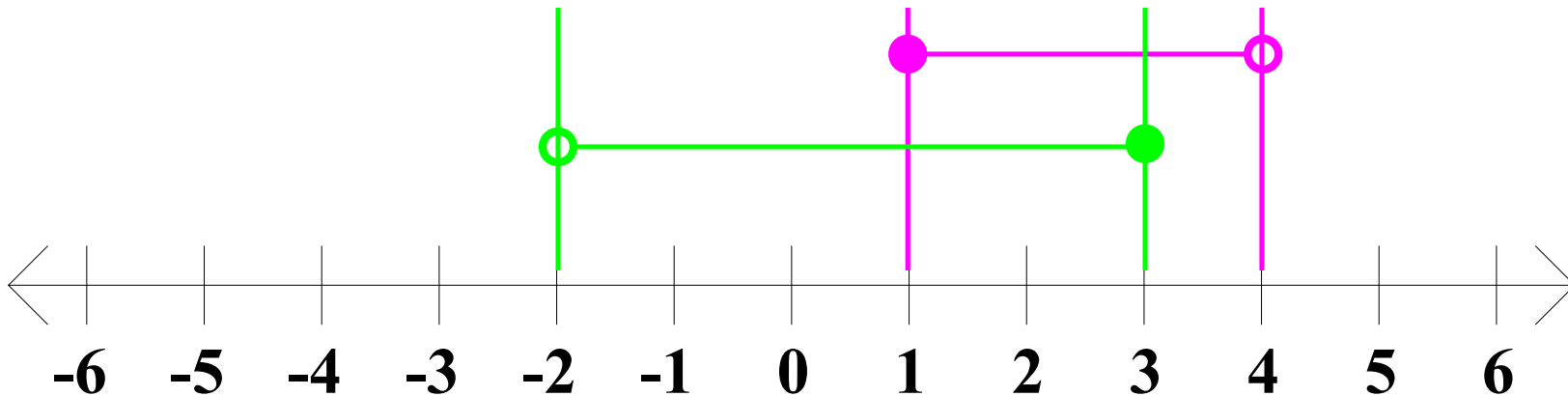
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Algebra II Class Worksheet #2 Unit 1

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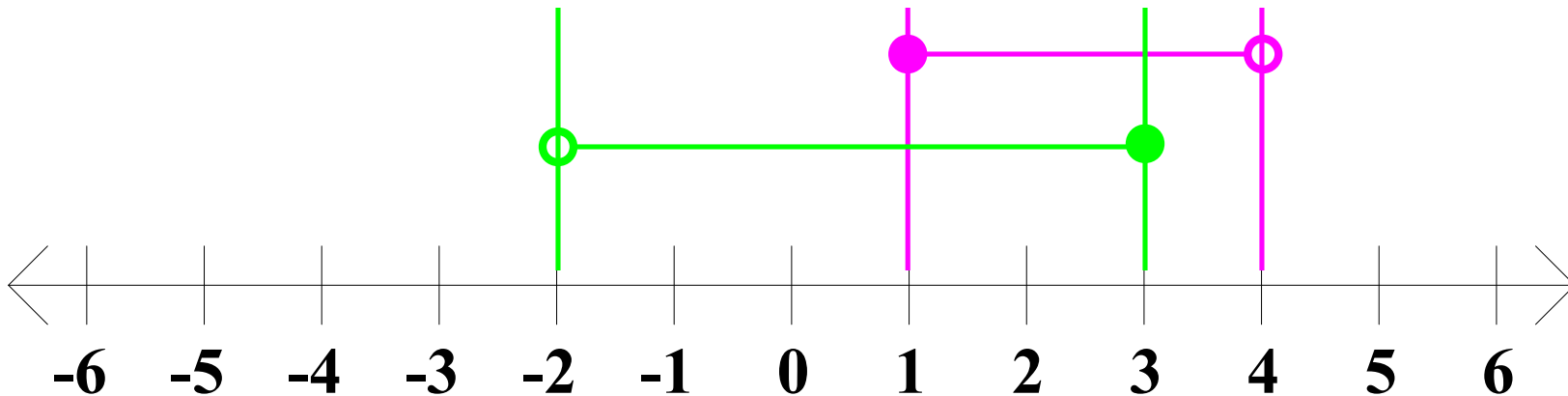
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Algebra II Class Worksheet #2 Unit 1

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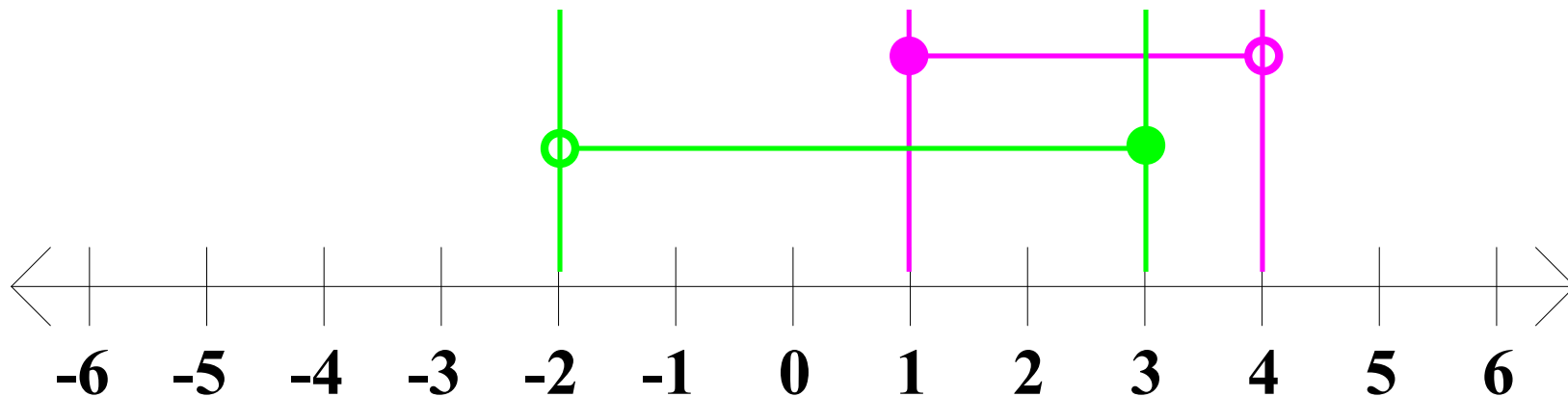


Algebra II Class Worksheet #2 Unit 1

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18. $[1, 4) \cup (-2, 3] = \underline{\hspace{2cm}}$

↑
union

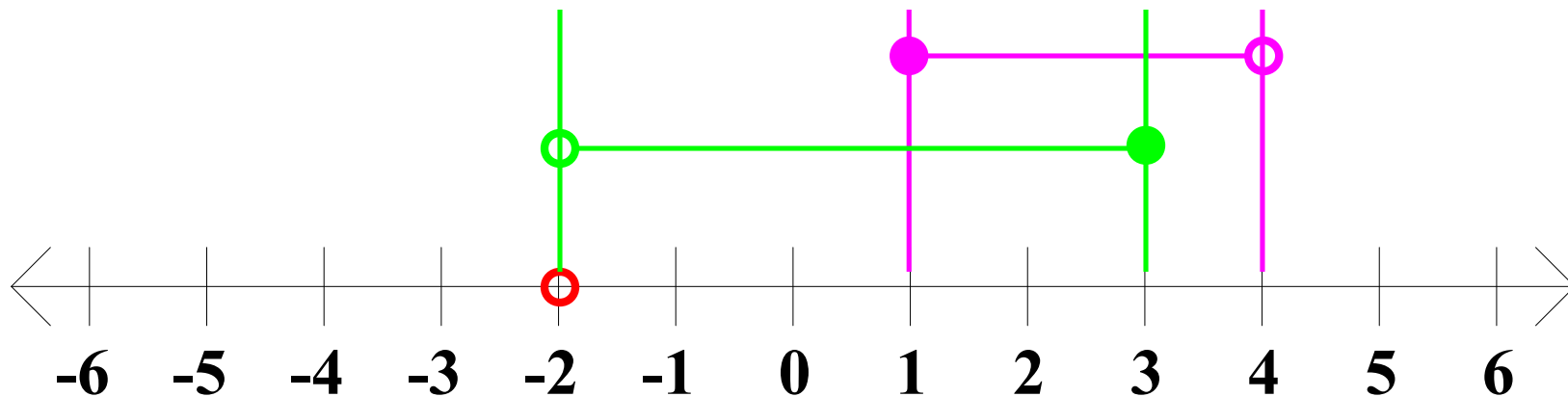


Algebra II Class Worksheet #2 Unit 1

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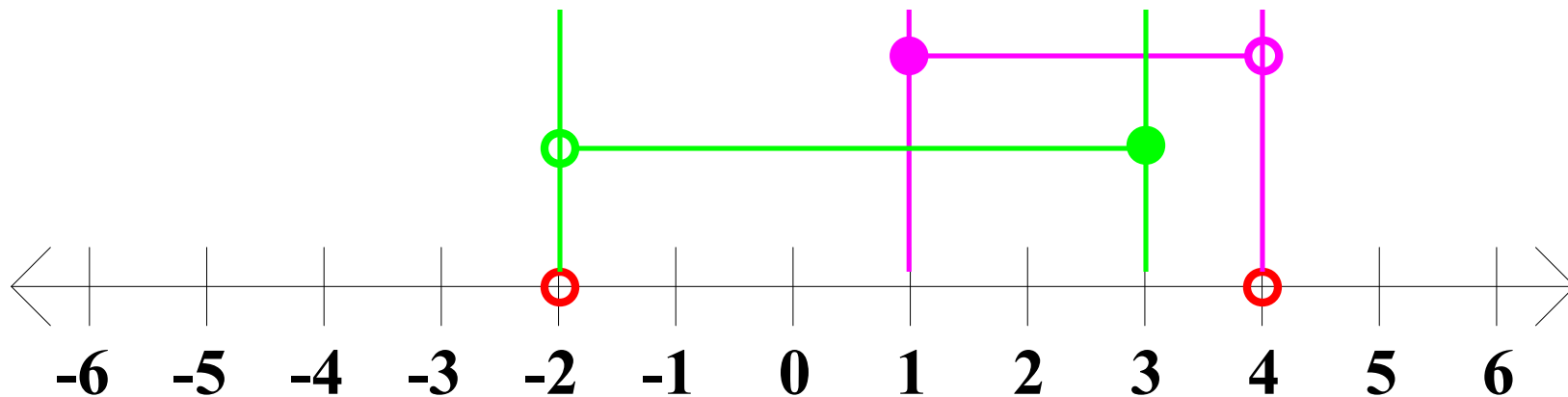


Algebra II Class Worksheet #2 Unit 1

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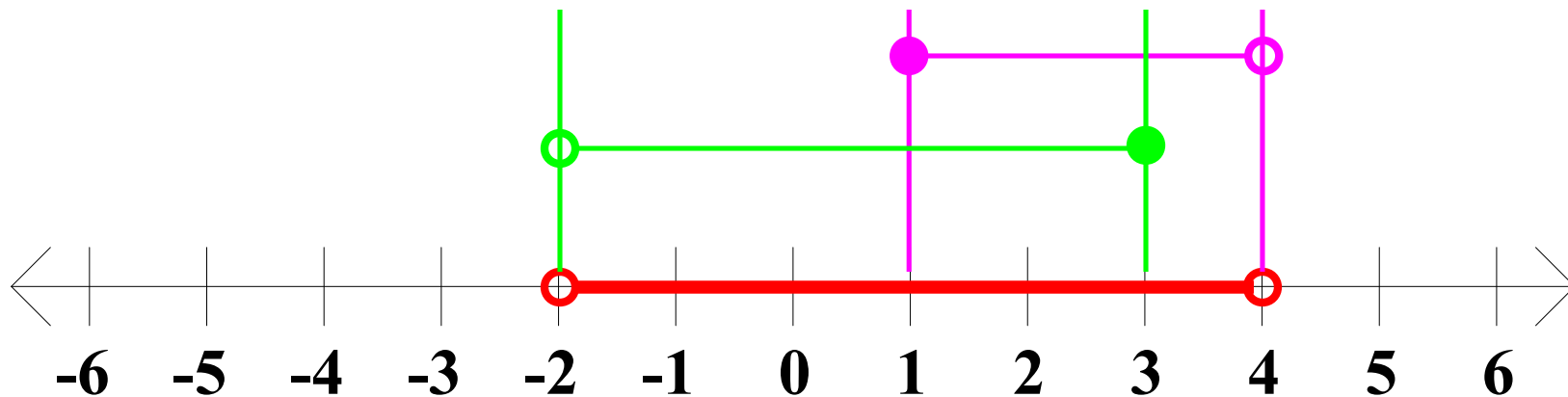


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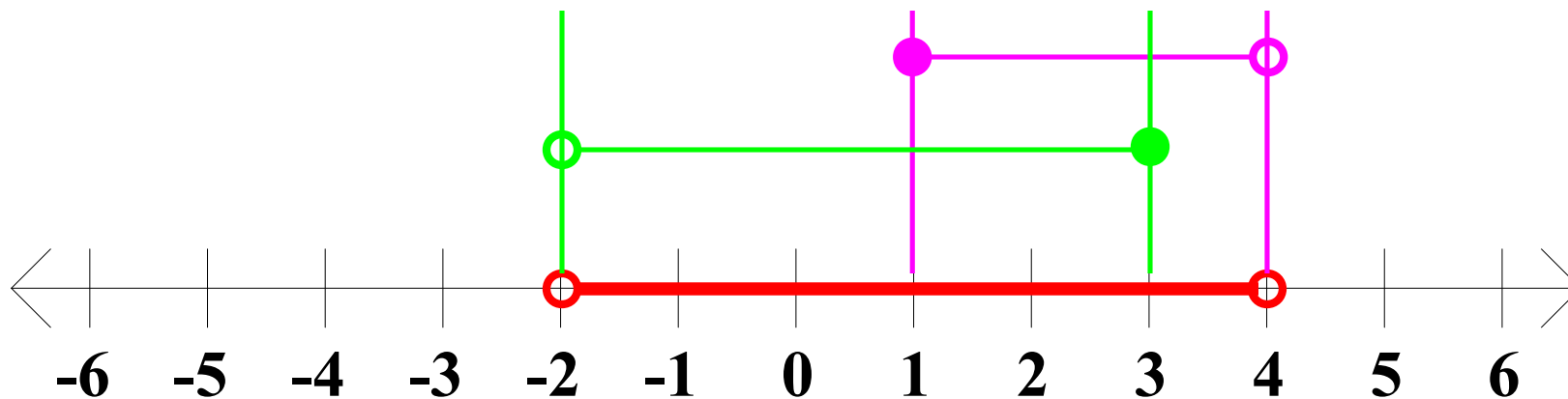


Algebra II Class Worksheet #2 Unit 1

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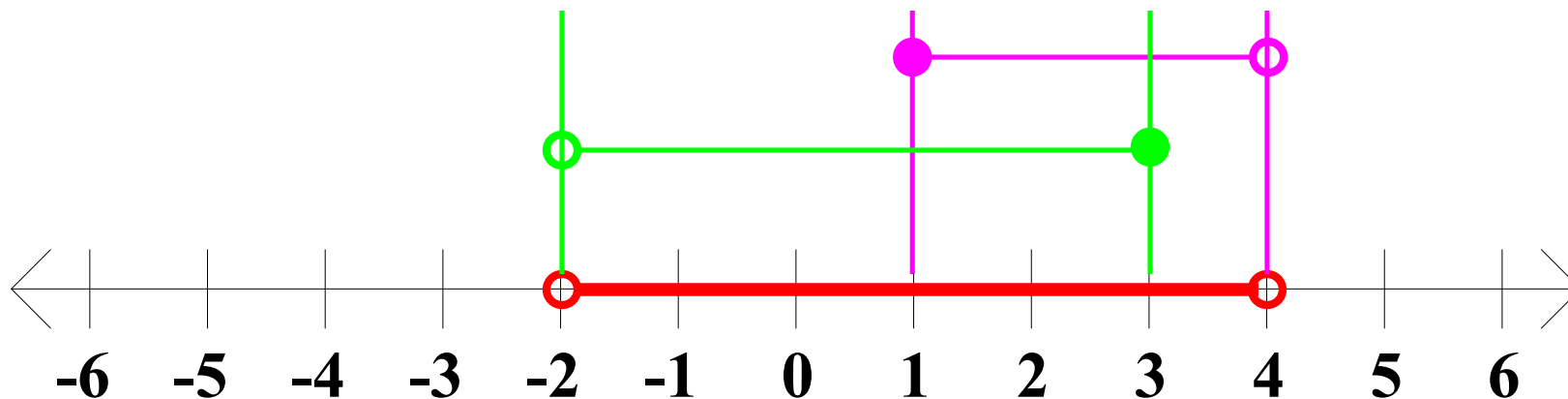


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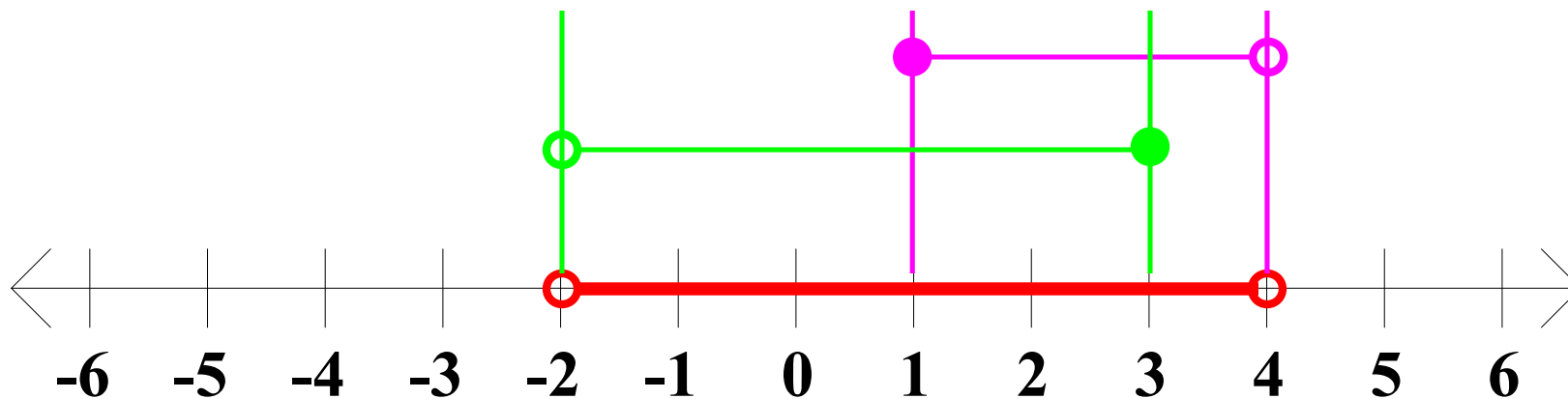


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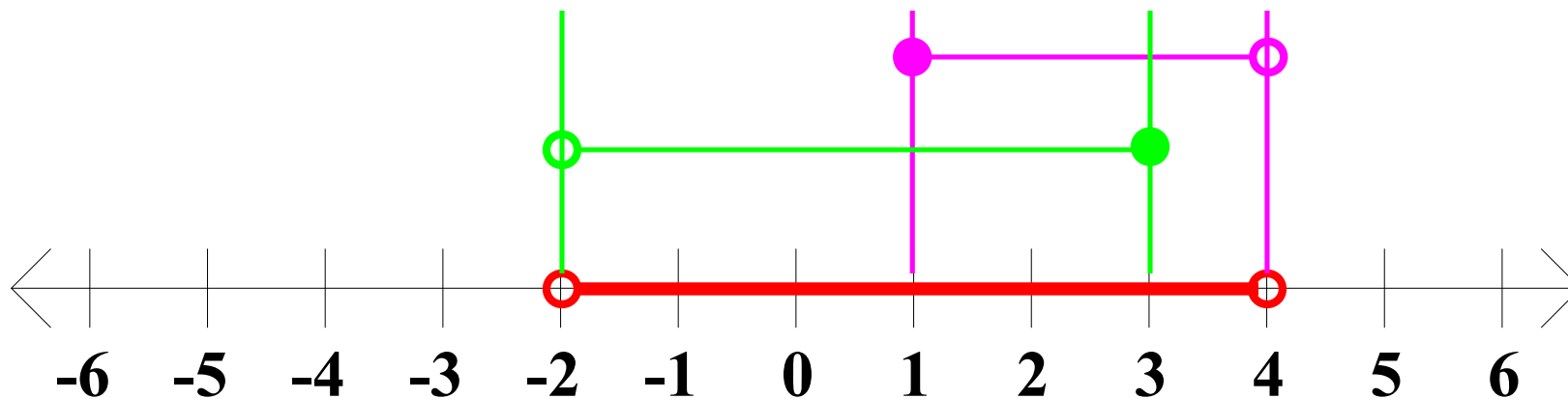


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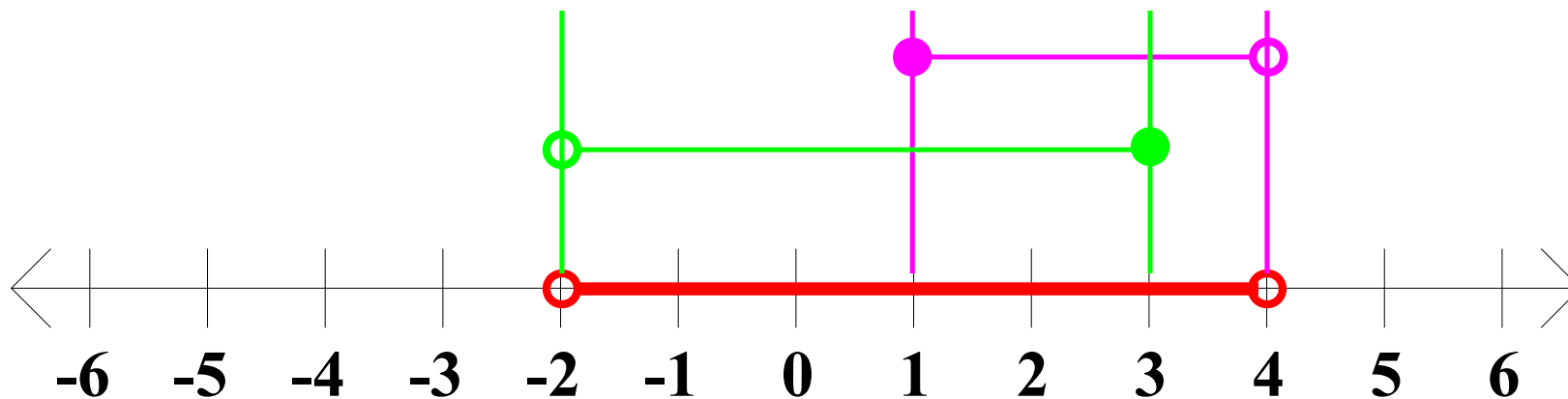


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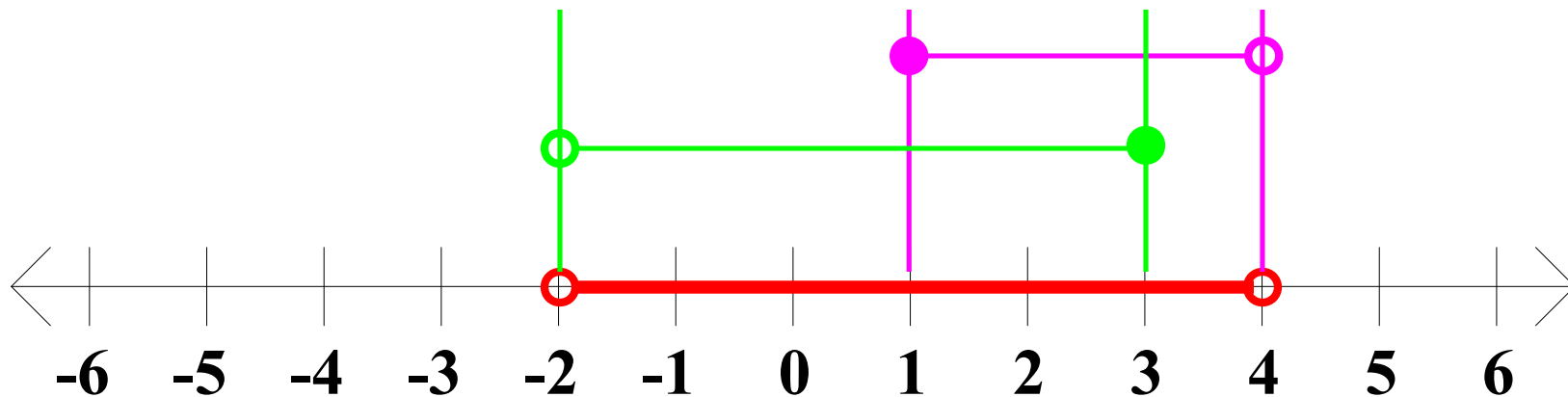


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Algebra II Class Worksheet #2 Unit 1

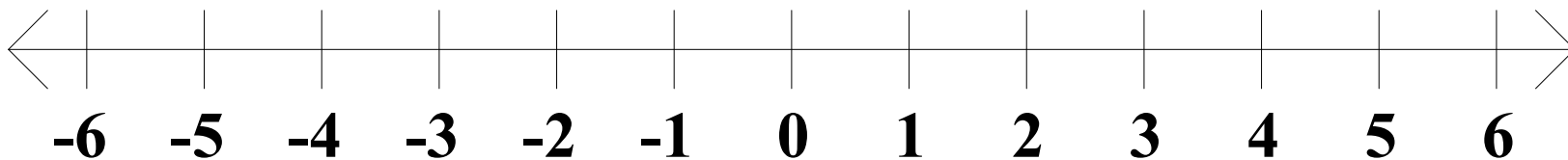
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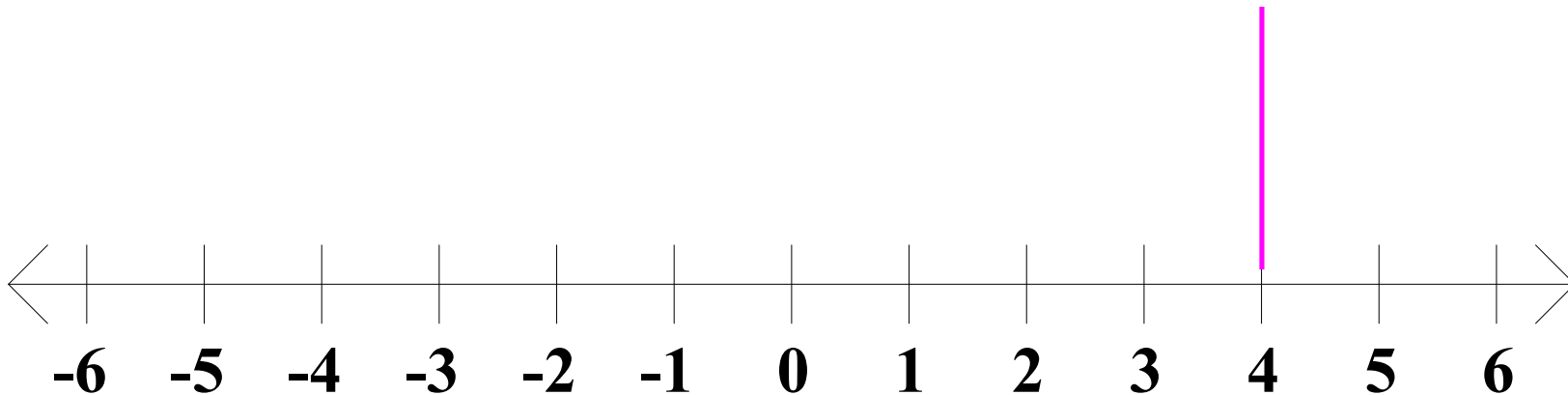
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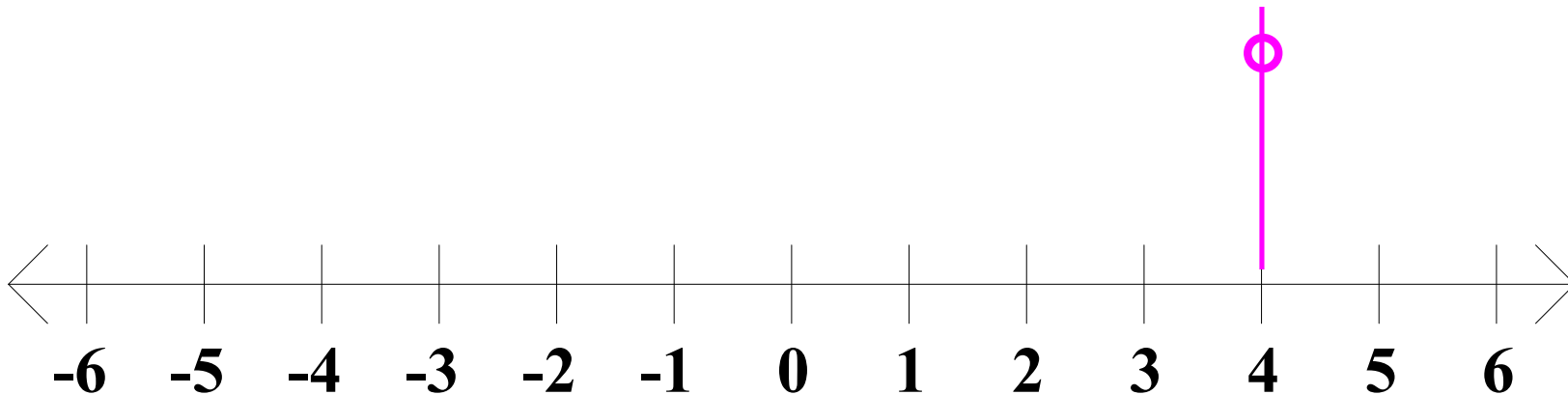
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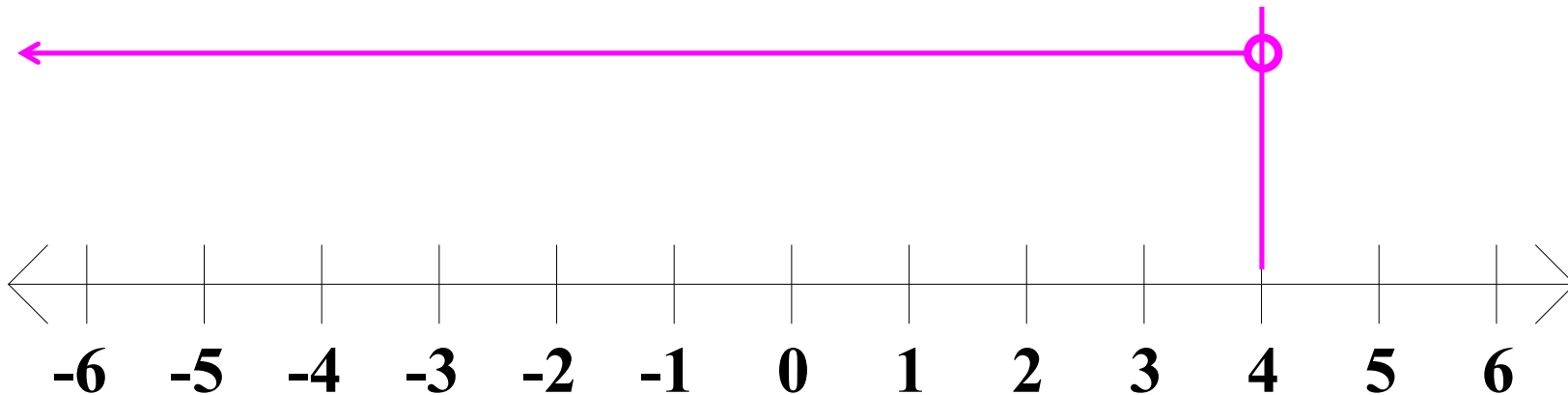
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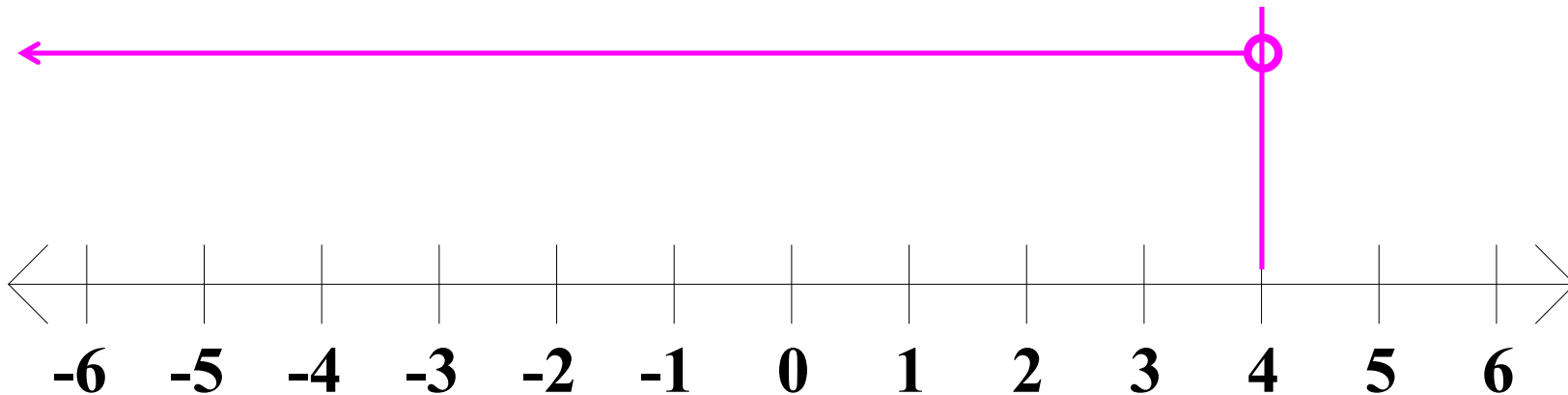
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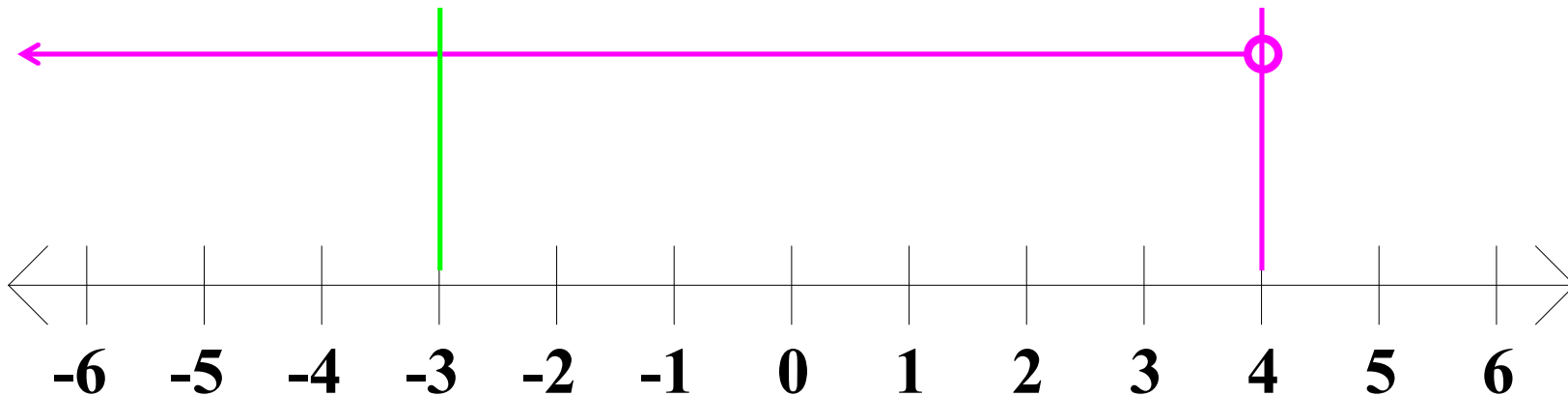
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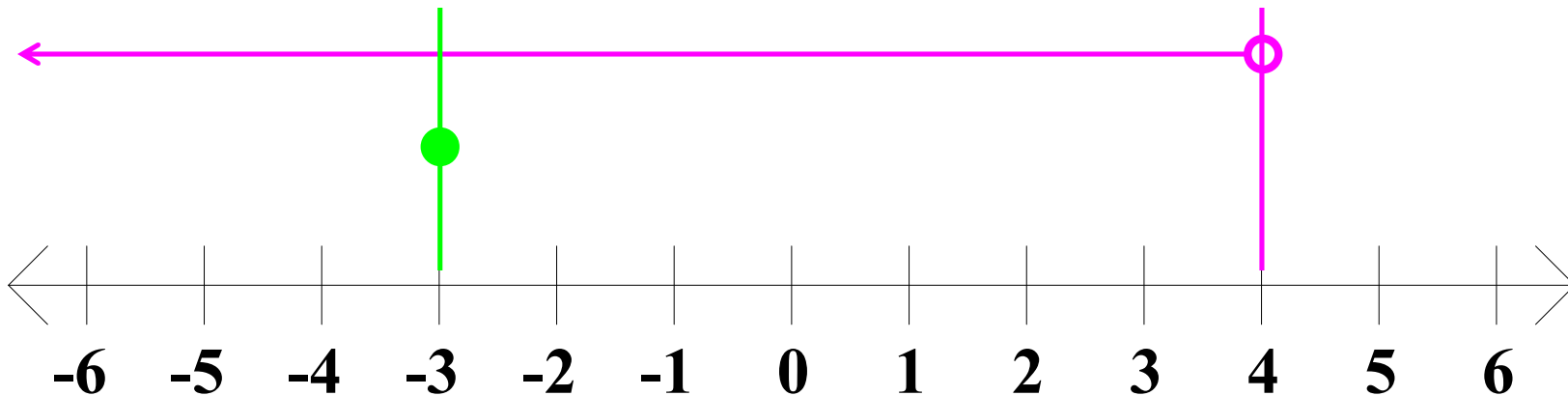
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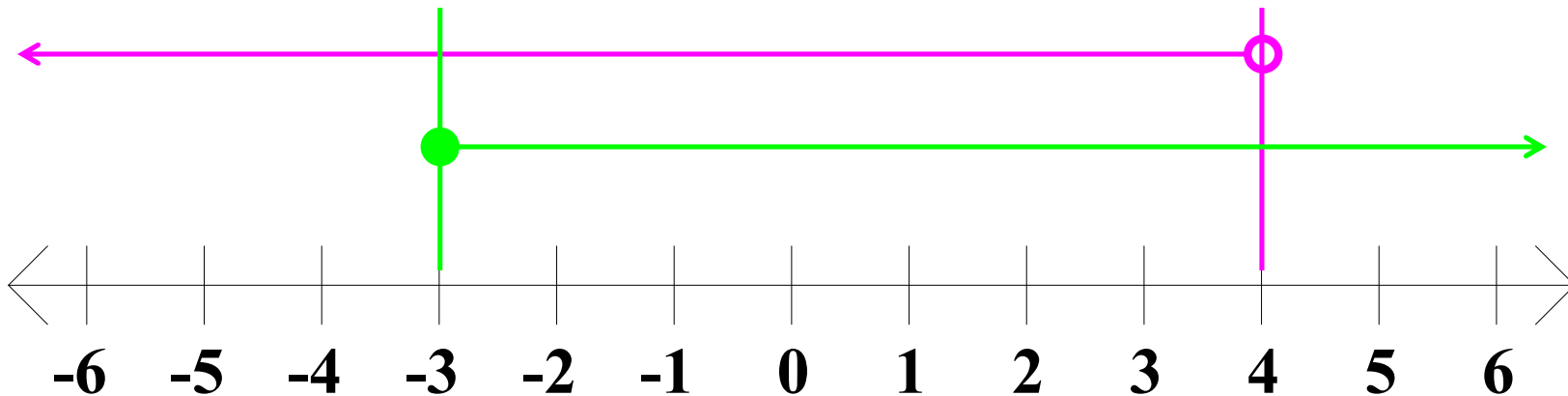
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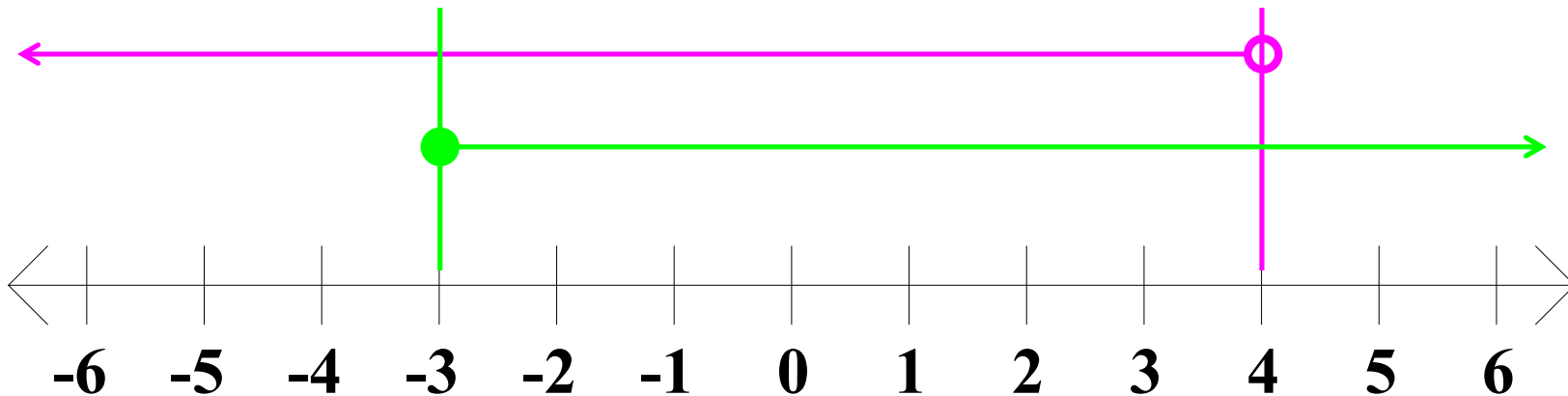
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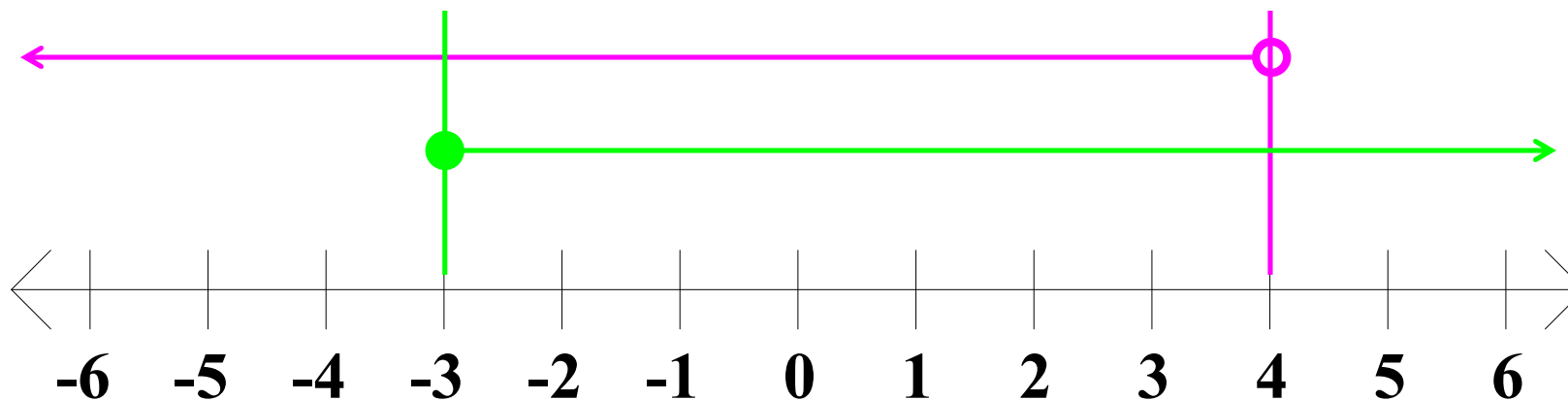


Algebra II Class Worksheet #2 Unit 1

Express each of the following as a single interval.

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↑
intersection

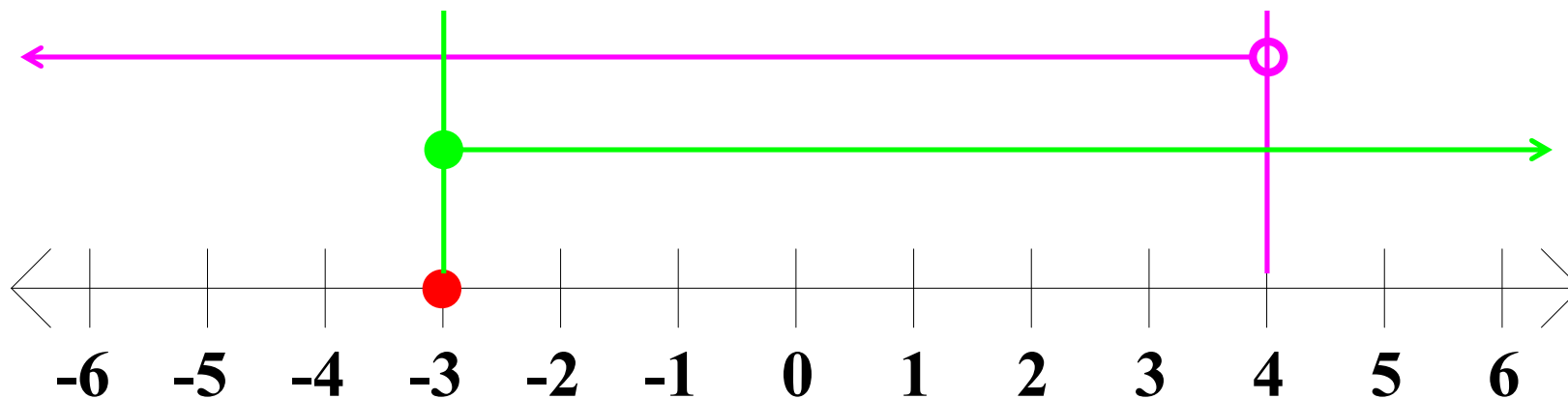


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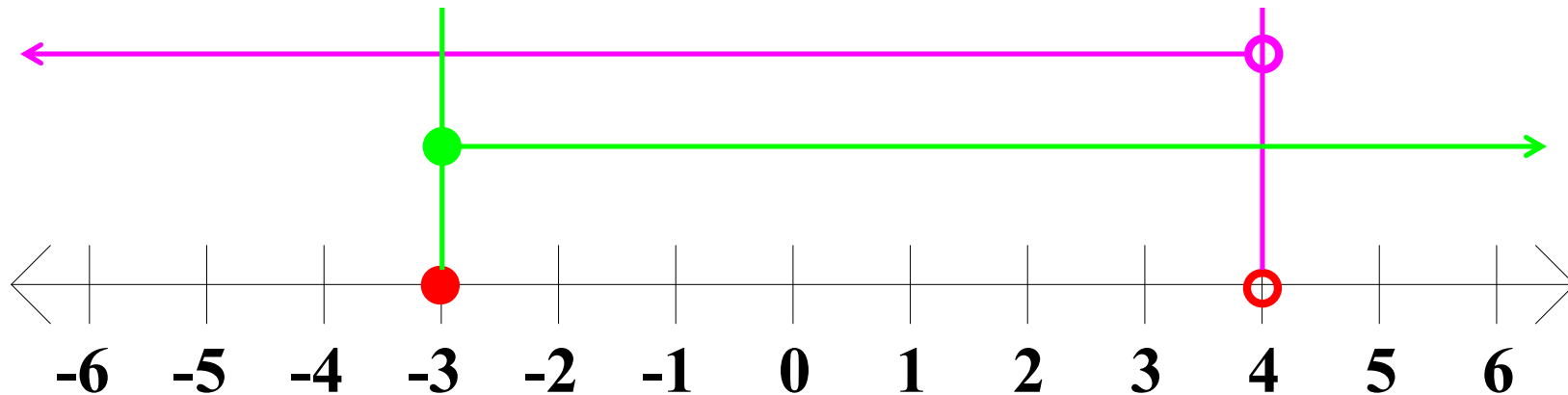


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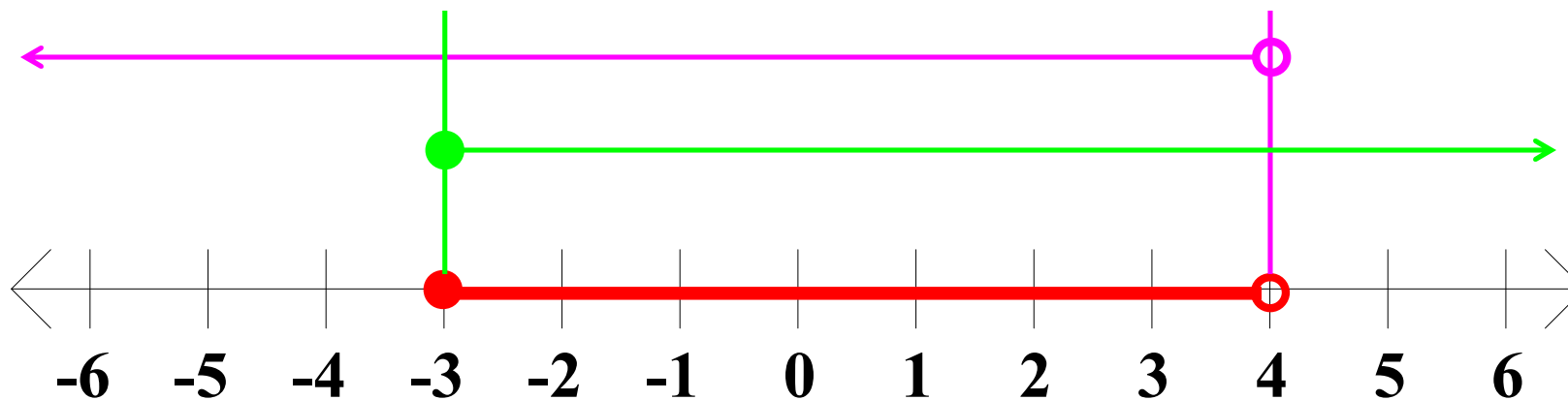


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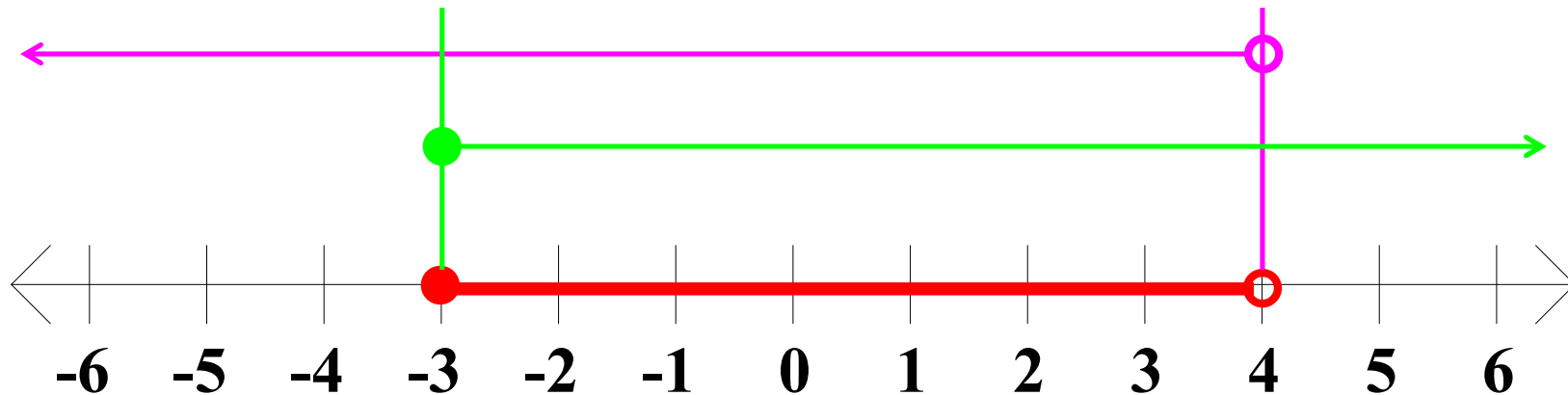


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Express each of the following as a single interval.

19. $(-\infty, 4) \cap [-3, \infty) = [\underline{\hspace{2cm}}]$

↑
intersection

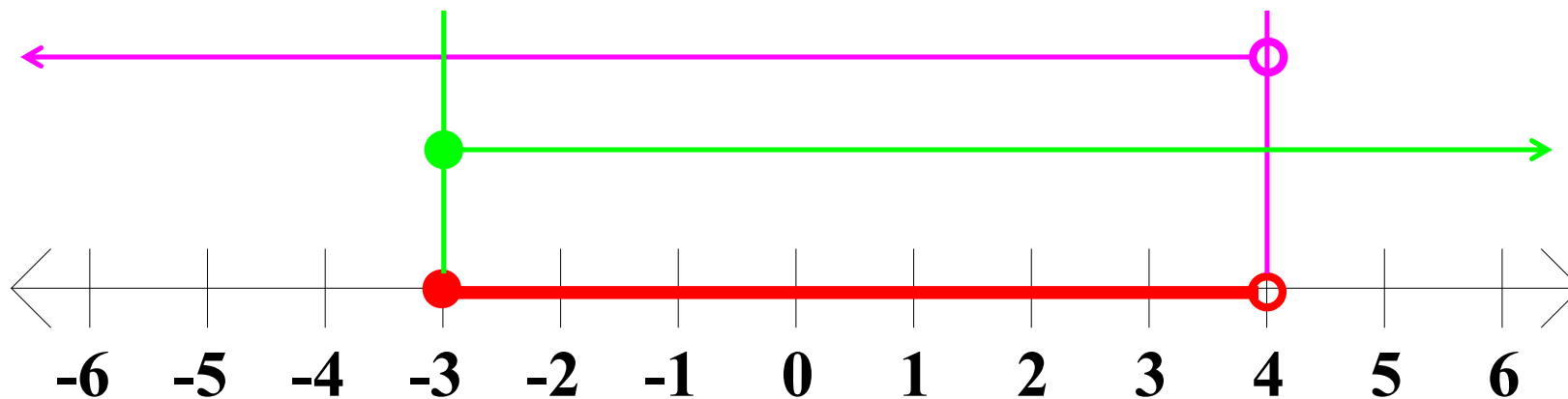


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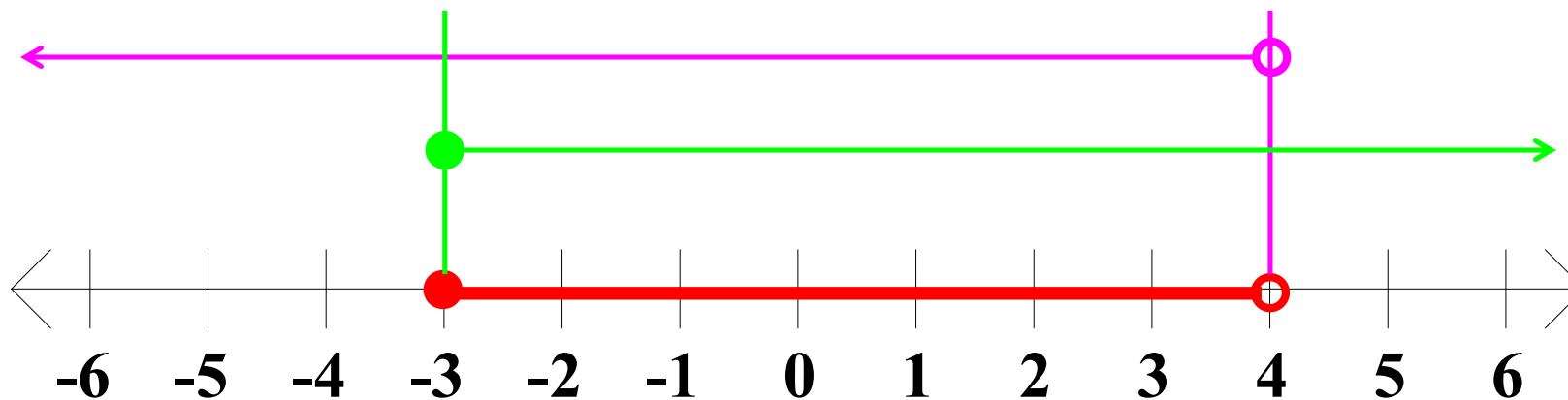


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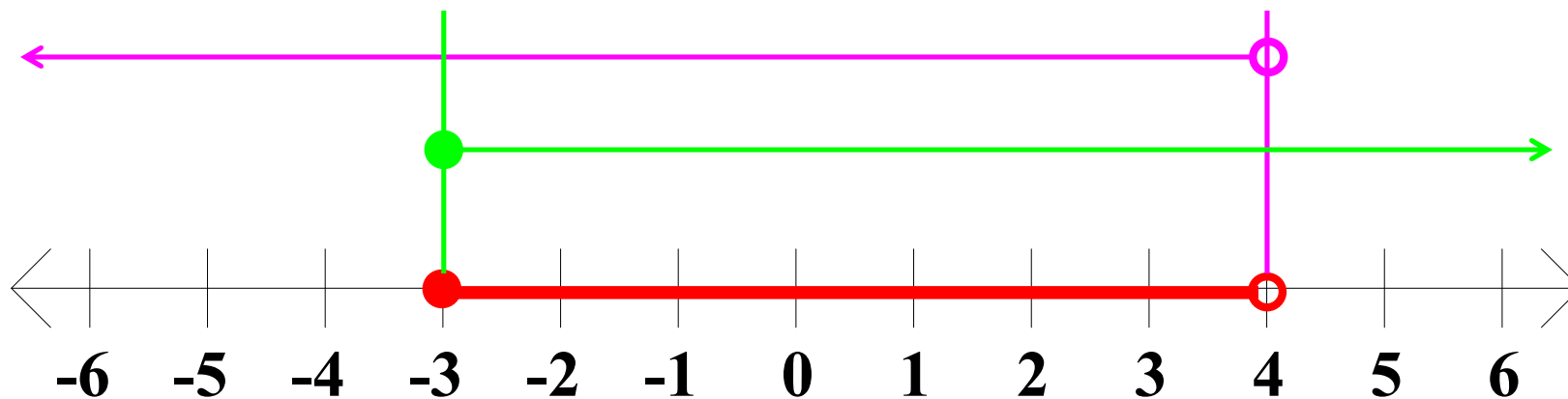


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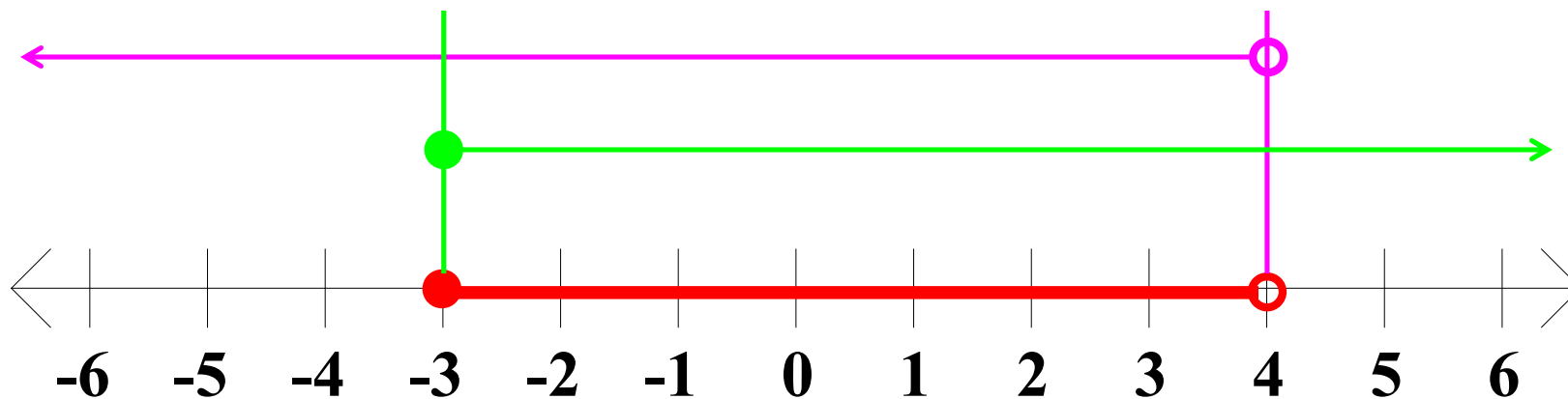


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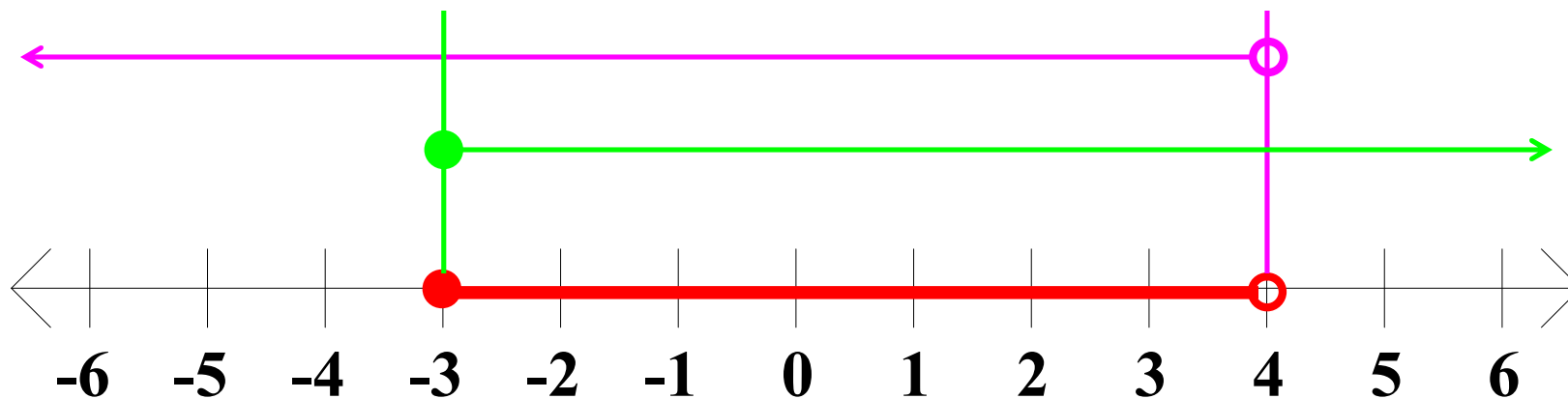


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Algebra II Class Worksheet #2 Unit 1

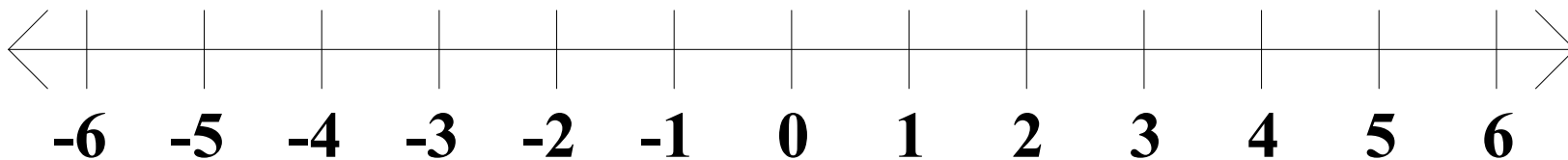
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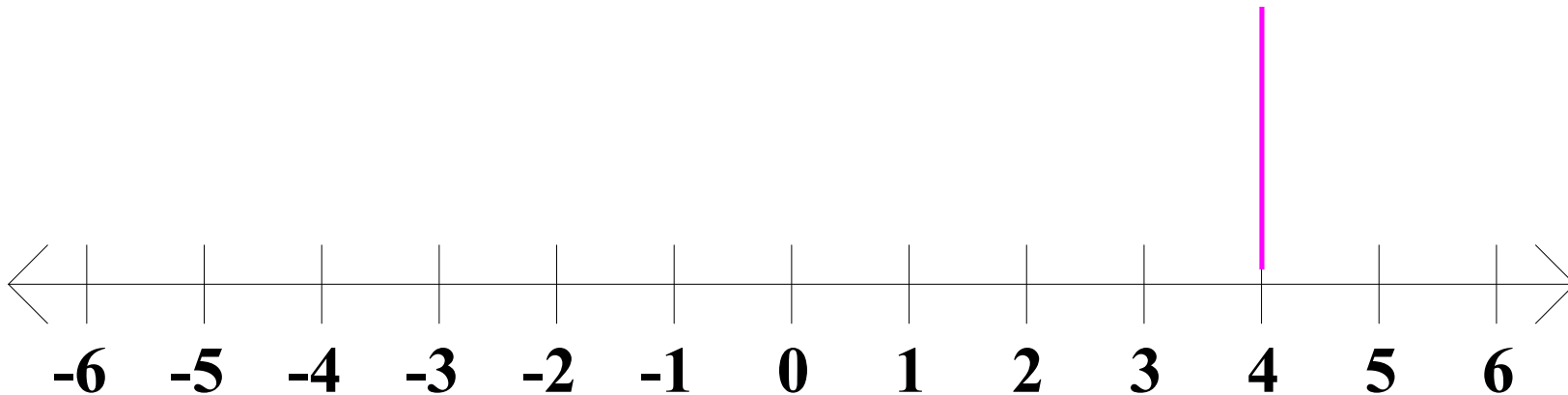
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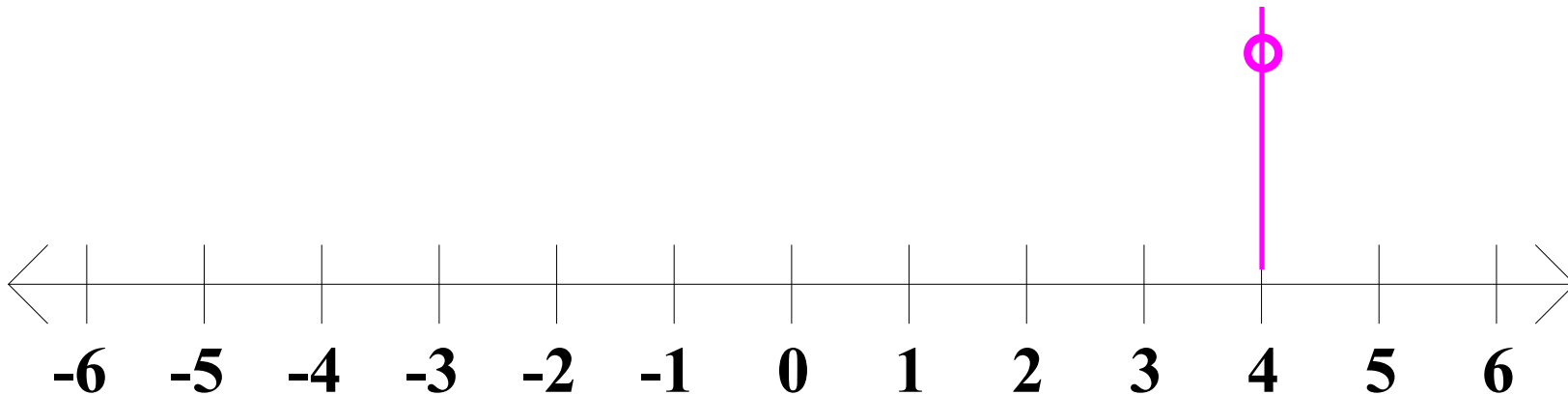
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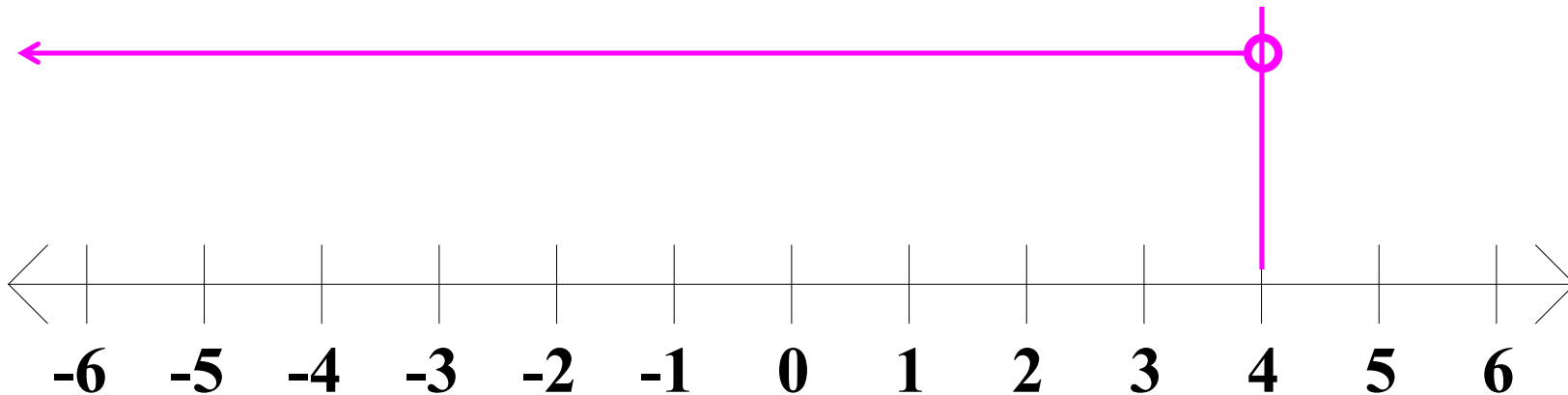
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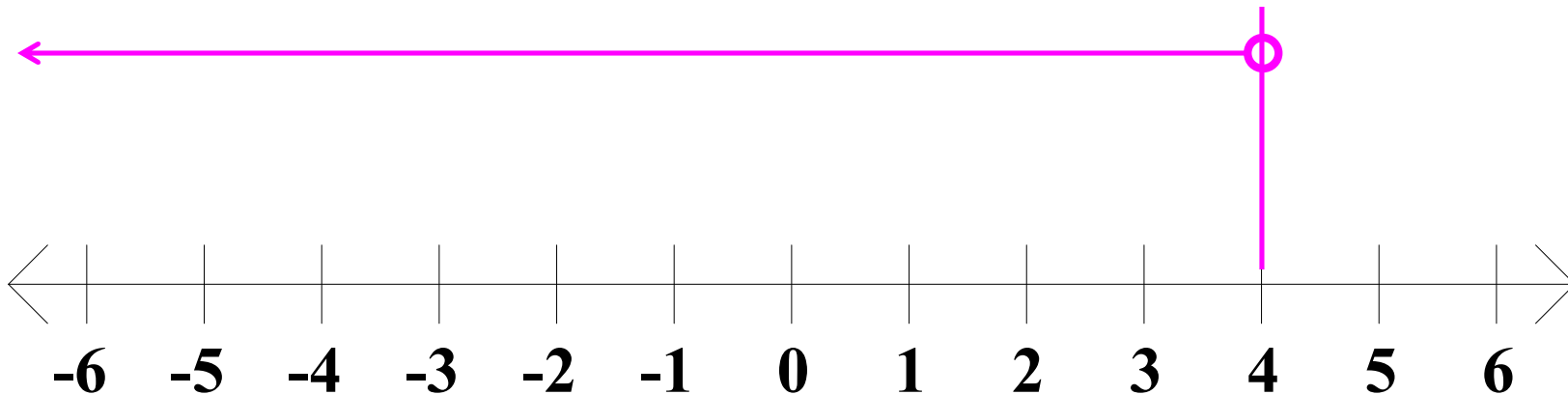
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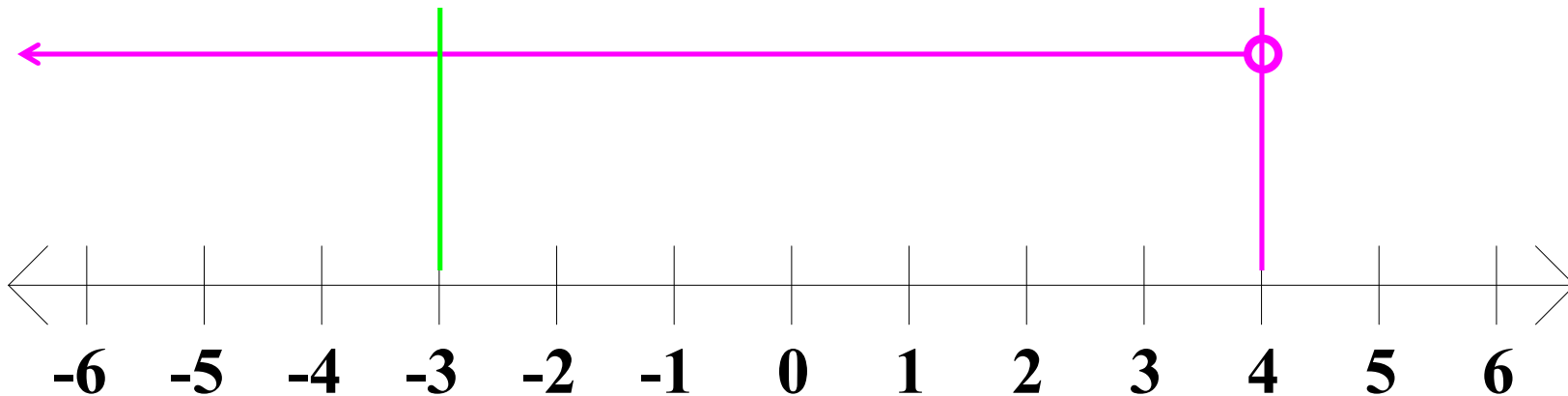
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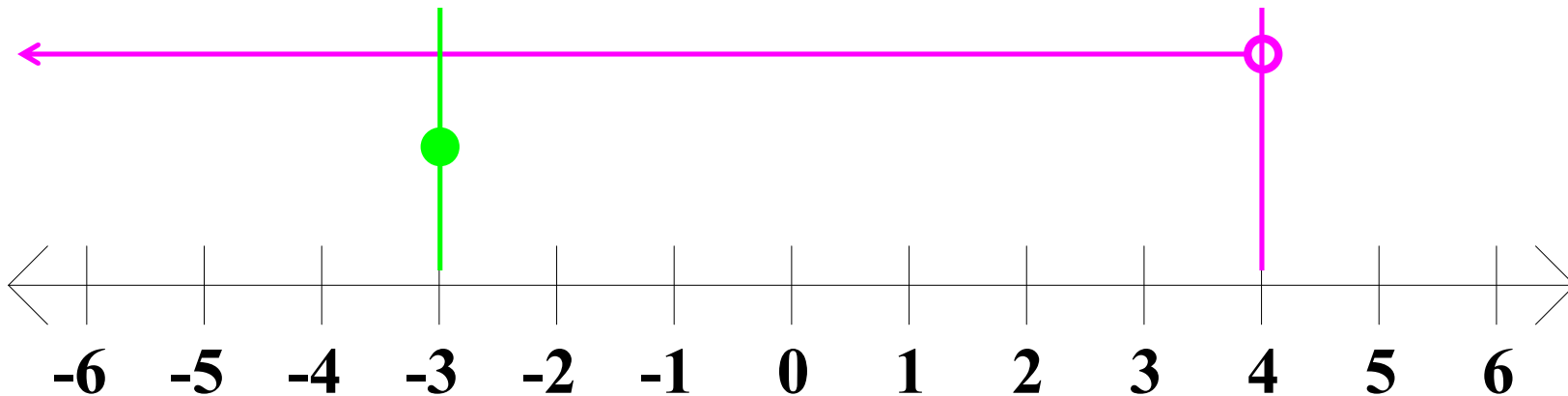
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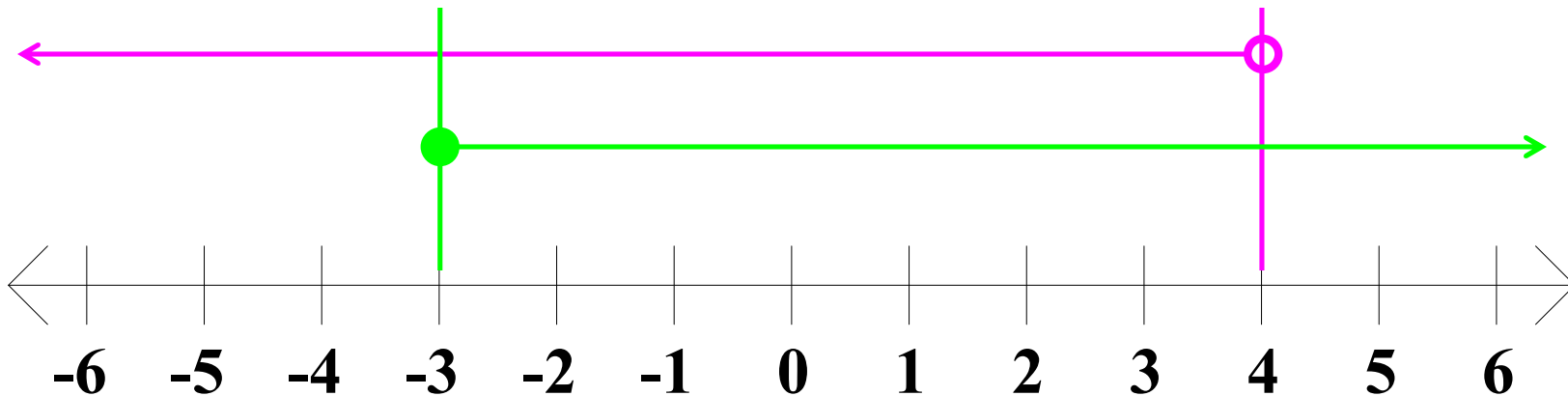
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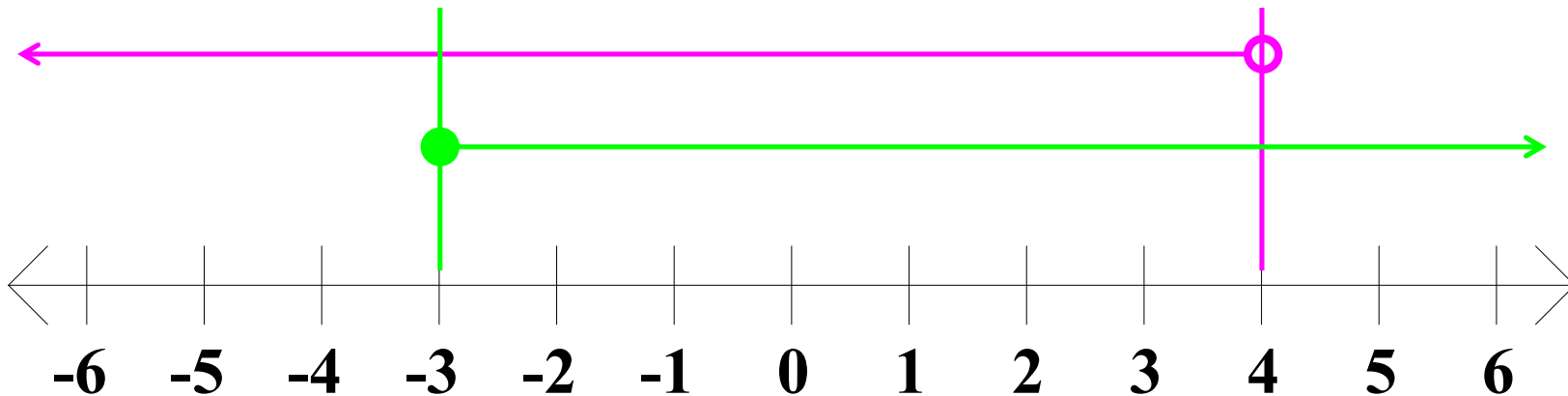
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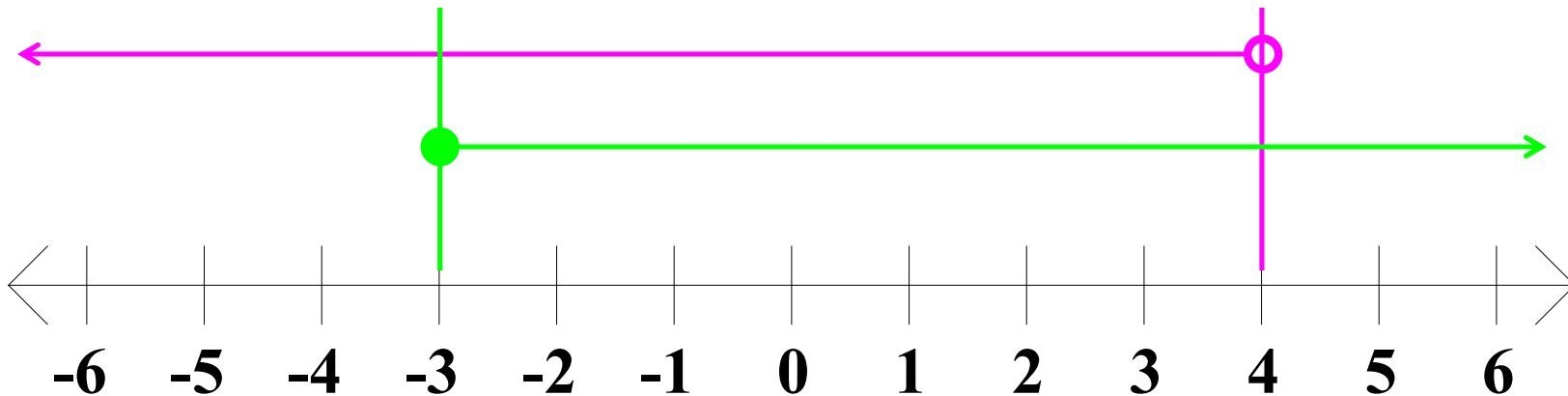


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Express each of the following as a single interval.

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↑
union

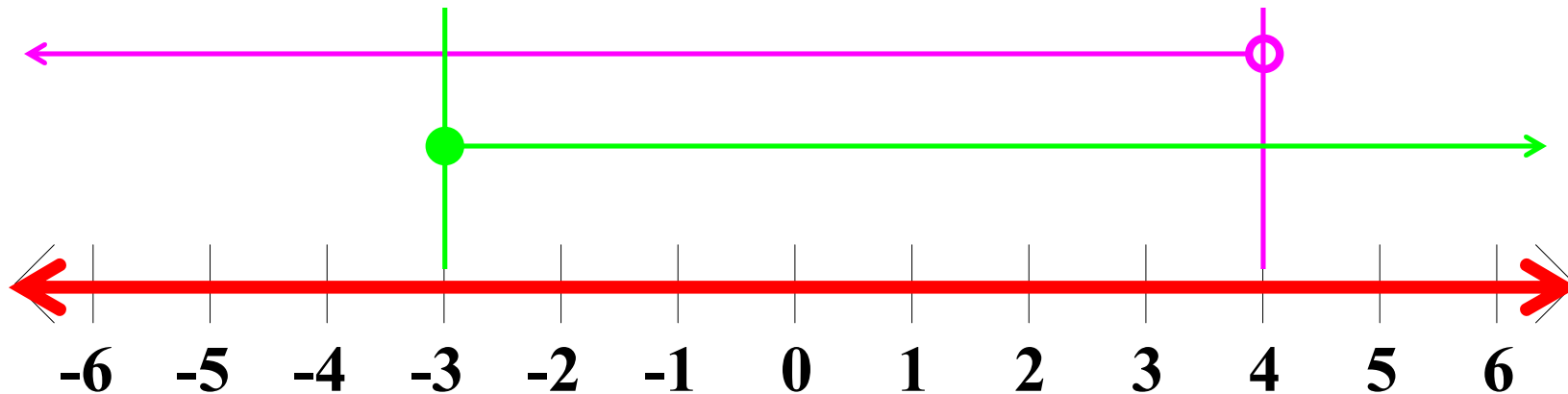


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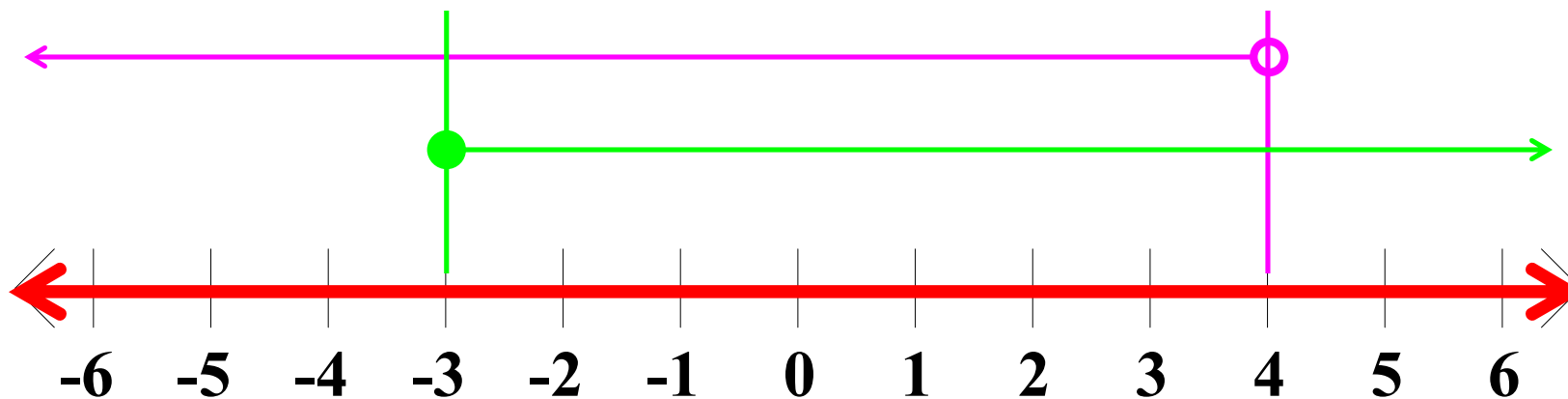


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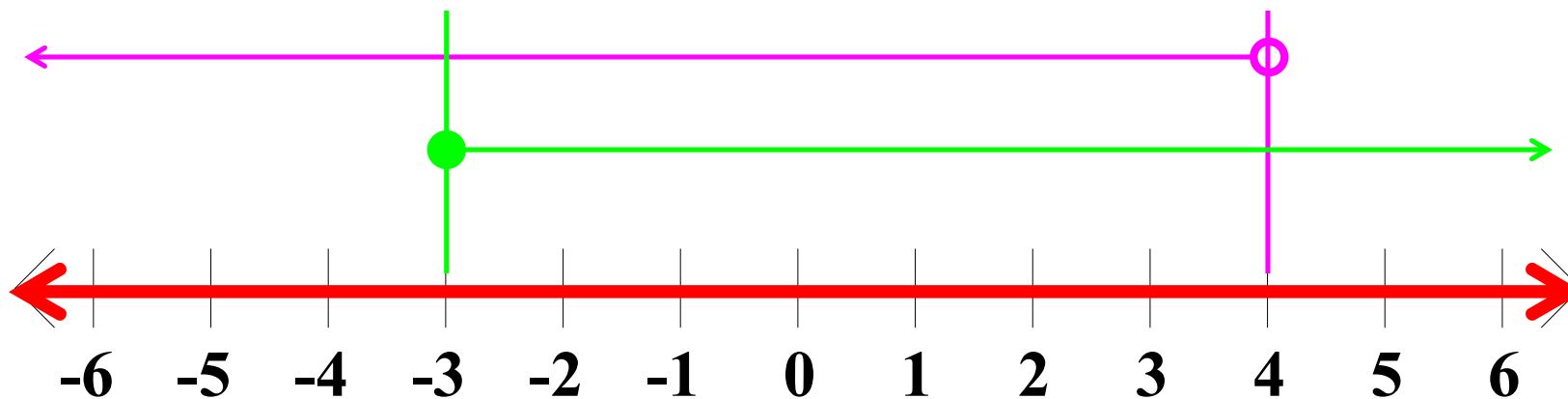


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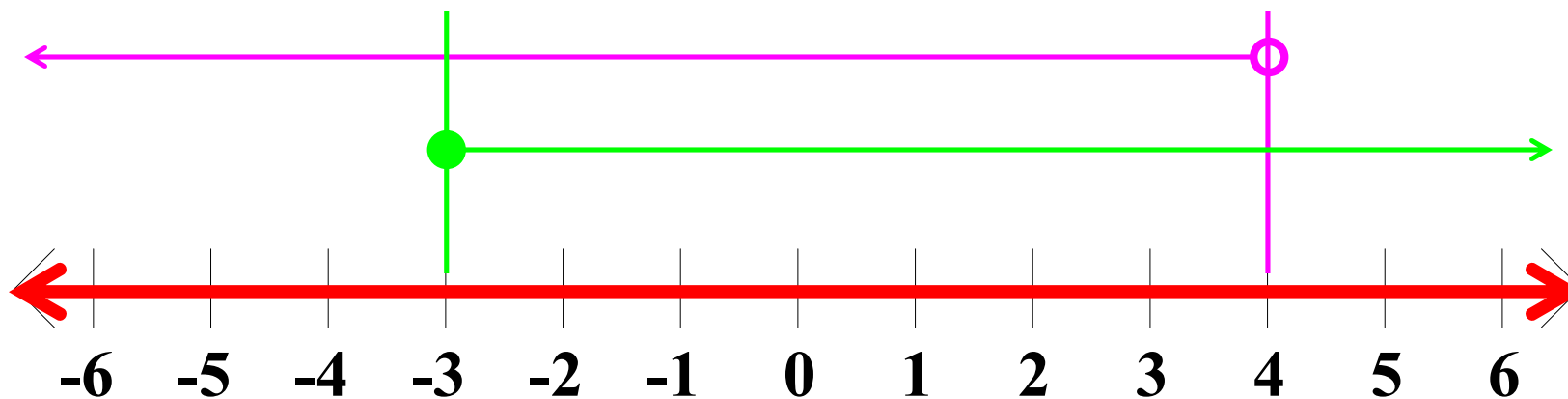


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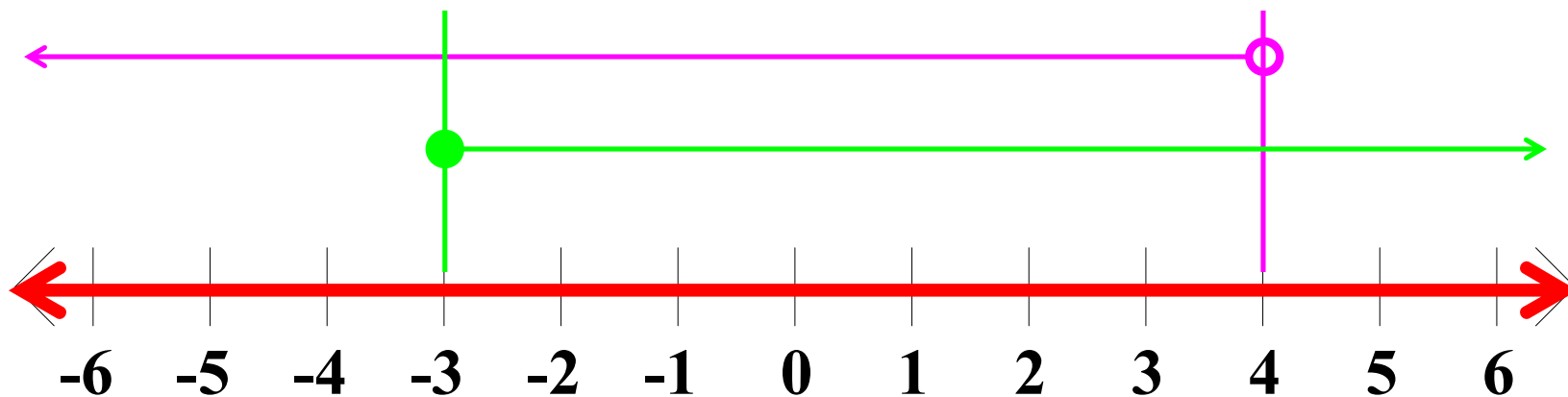


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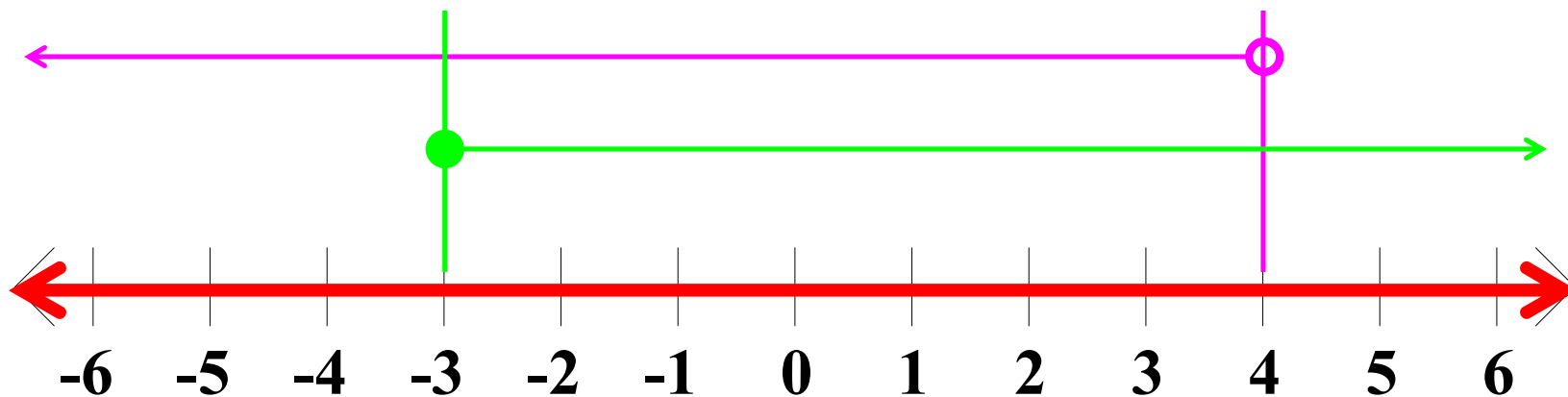


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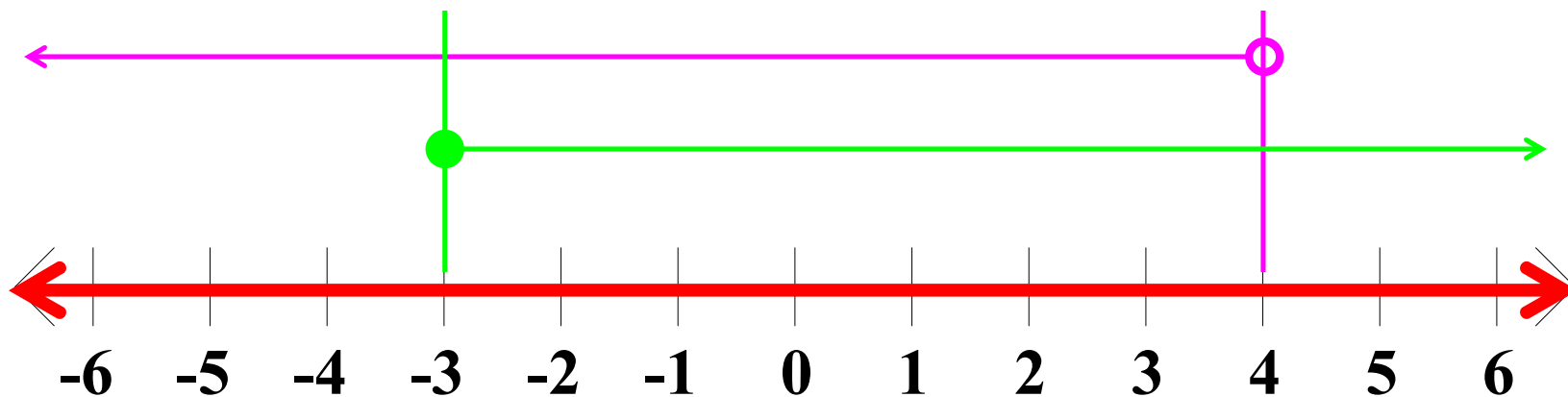


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↑
union



Algebra II Class Worksheet #2 Unit 1

Express each of the following as a single interval.

$$20. \quad (-\infty, 4) \cup [-3, \infty) = \underline{(-\infty, \infty)}$$

↑
union

Good luck on your homework !!

