

Algebra II Lesson #3 Unit 1

Class Worksheet #3

For Worksheets #4 & #5

Algebra II Unit 1 Compound Inequalities

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Compound inequalities are formed when two basic inequalities are ‘joined’ using the ‘connective’ and or the ‘connective’ or.

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Type 1 and :

1. $3x + 5 < 11$

Algebra II Unit 1 Compound Inequalities

Compound inequalities are formed when two basic inequalities are ‘joined’ using the ‘connective’ **and** or the ‘connective’ **or**. Here are some examples.

Type 1 **and** :

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Compound inequalities are formed when two basic inequalities are ‘joined’ using the ‘connective’ and or the ‘connective’ or. Here are some examples.

Type 1 and :

1. $3x + 5 < 11$ and $2x + 3 > -3$

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1. $3x + 5 < 11$ and $2x + 3 > -3$

2. $-2x - 3 \geq 5$

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Type 1 and :

1. $3x + 5 < 11$ and $2x + 3 > -3$

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1. $3x + 5 < 11$ and $2x + 3 > -3$

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3. $x - 1 > 3$

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Type 2 or :

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Type 2 or :

4. $2x + 7 \geq 1$

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Type 2 or :

4. $2x + 7 \geq 1$ or $3x - 2 \geq 10$

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3. $x - 1 > 3$ and $-2x - 5 > 1$

Type 2 or :

4. $2x + 7 \geq 1$ or $3x - 2 \geq 10$

5. $-5x + 11 < 1$

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Type 1 and :

1. $3x + 5 < 11$ and $2x + 3 > -3$
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3. $x - 1 > 3$ and $-2x - 5 > 1$

Type 2 or :

4. $2x + 7 \geq 1$ or $3x - 2 \geq 10$
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5. $-5x + 11 < 1$ or $x + 5 < 1$

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3. $x - 1 > 3$ and $-2x - 5 > 1$

Type 2 or :

4. $2x + 7 \geq 1$ or $3x - 2 \geq 10$
5. $-5x + 11 < 1$ or $x + 5 < 1$
- 6.

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Type 1 and :

- 1. $3x + 5 < 11$ and $2x + 3 > -3$**
- 2. $-2x - 3 \geq 5$ and $4x + 6 \leq 14$**
- 3. $x - 1 > 3$ and $-2x - 5 > 1$**

Type 2 or :

- 4. $2x + 7 \geq 1$ or $3x - 2 \geq 10$**
- 5. $-5x + 11 < 1$ or $x + 5 < 1$**
- 6. $3x + 4 \geq 1$**

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1. $3x + 5 < 11$ and $2x + 3 > -3$
2. $-2x - 3 \geq 5$ and $4x + 6 \leq 14$
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Type 2 or :

4. $2x + 7 \geq 1$ or $3x - 2 \geq 10$
5. $-5x + 11 < 1$ or $x + 5 < 1$
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3. $x - 1 > 3$ and $-2x - 5 > 1$

Type 2 or :

4. $2x + 7 \geq 1$ or $3x - 2 \geq 10$

5. $-5x + 11 < 1$ or $x + 5 < 1$

6. $3x + 4 \geq 1$ or $-4x + 10 > 2$

Algebra II Class Worksheet #3 Unit 1
Solving Compound Inequalities - Type 1 and

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Solve each of the following for x. Represent the solution set as an interval or the union of intervals and sketch its graph.

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 $3x$

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Solve each of the following for x. Represent the solution set as an interval or the union of intervals and sketch its graph.

1. $3x + 5 < 11$ and $2x + 3 > -3$
 $3x < 6$

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1. $3x + 5 < 11$ and $2x + 3 > -3$

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x

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Solve each of the following for x. Represent the solution set as an interval or the union of intervals and sketch its graph.

1. $3x + 5 < 11$ and $2x + 3 > -3$

$3x < 6$

$x < 2$

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Solve each of the following for x. Represent the solution set as an interval or the union of intervals and sketch its graph.

1. $3x + 5 < 11$ and $2x + 3 > -3$

$3x < 6$

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Algebra II Class Worksheet #3 Unit 1

Solving Compound Inequalities - Type 1 and

Step 1: Solve each basic inequality.

Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.

Solve each of the following for x. Represent the solution set as an interval or the union of intervals and sketch its graph.

1. $3x + 5 < 11$ and $2x + 3 > -3$

$$3x < 6 \qquad 2x > -6$$

$$x < 2 \quad \underline{\text{and}} \quad x > -3$$

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Solving Compound Inequalities - Type 1 and

Step 1: Solve each basic inequality.

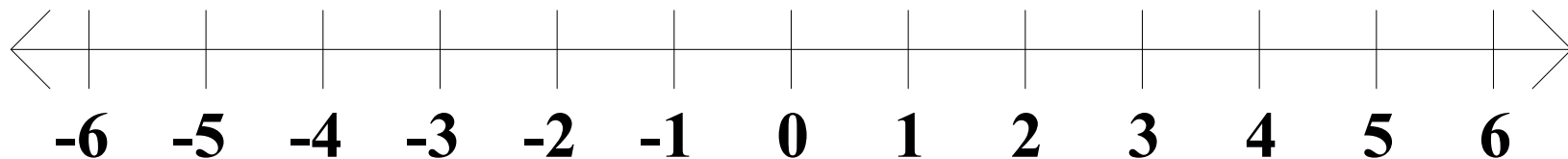
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Solve each of the following for x . Represent the solution set as an interval or the union of intervals and sketch its graph.

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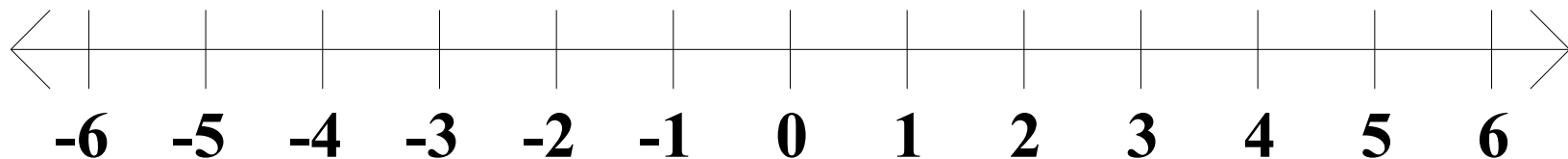
$$3x < 6$$

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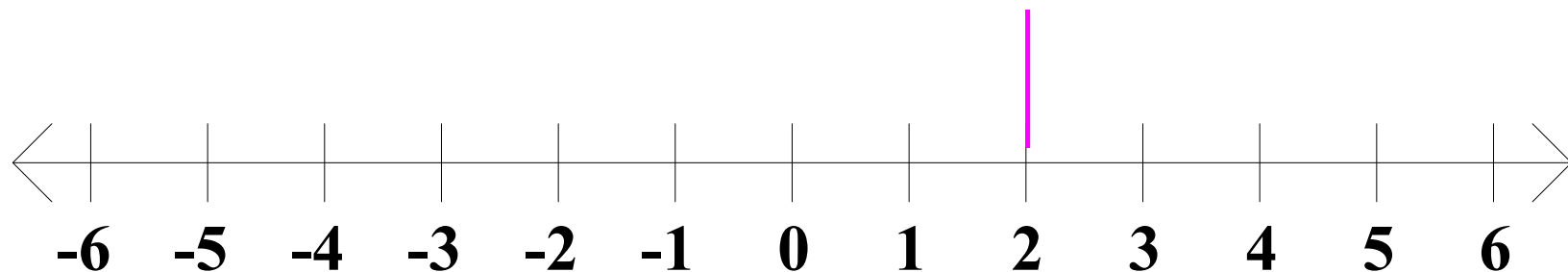
$$3x < 6$$

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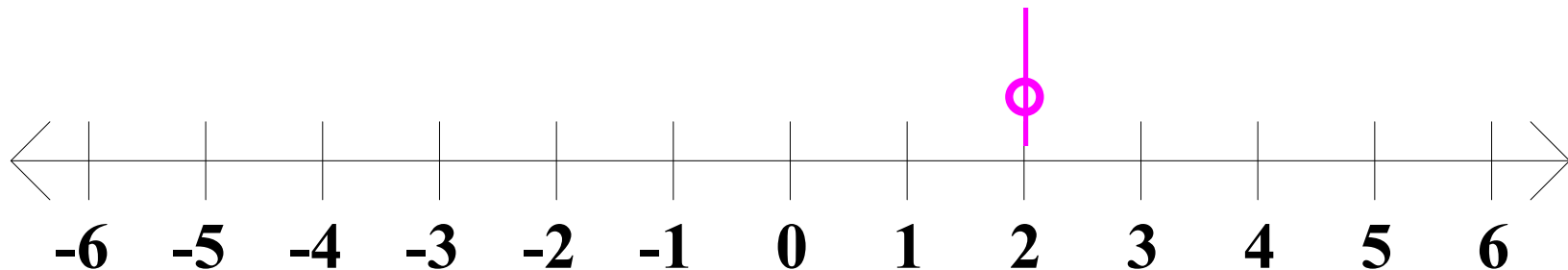
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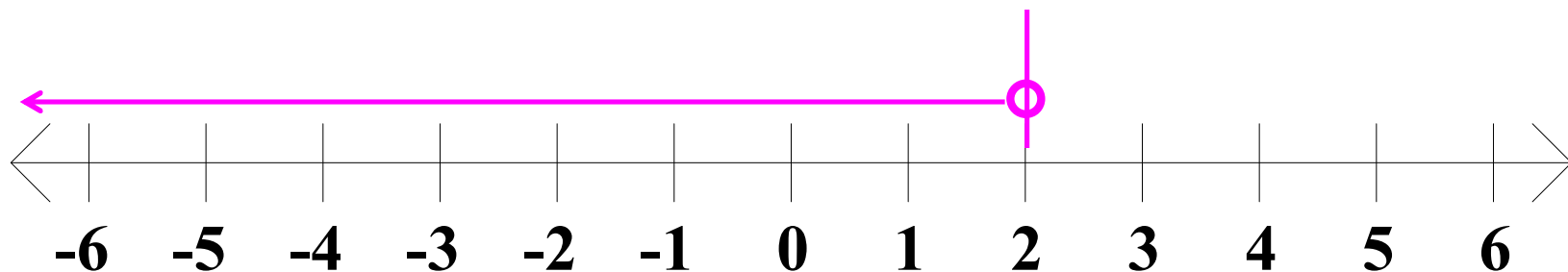
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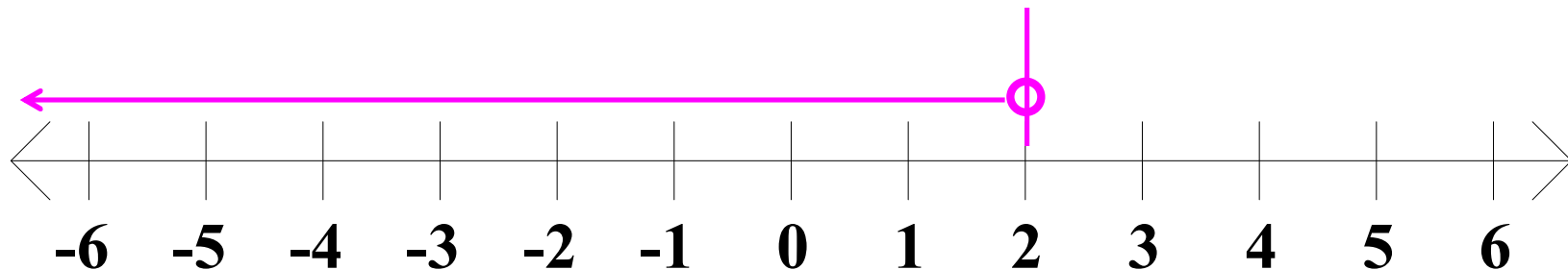
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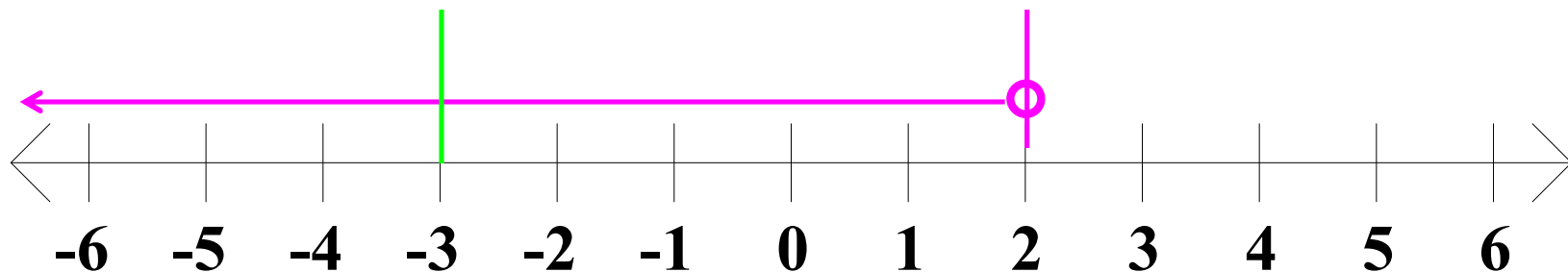
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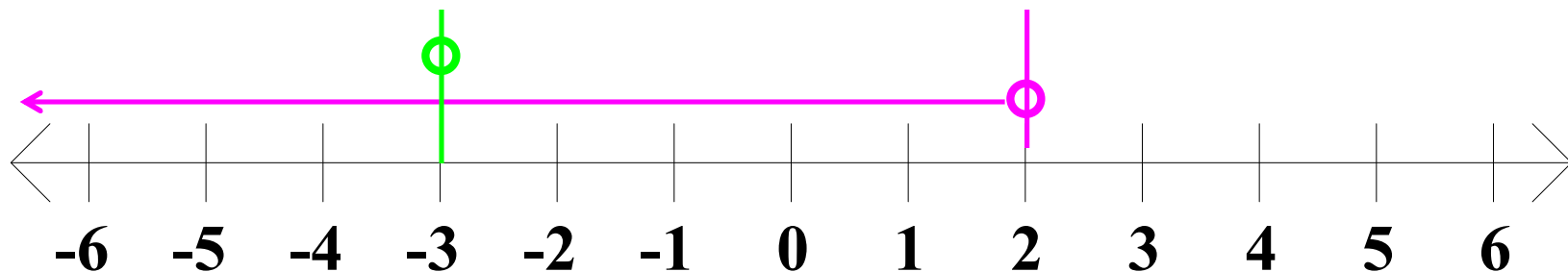
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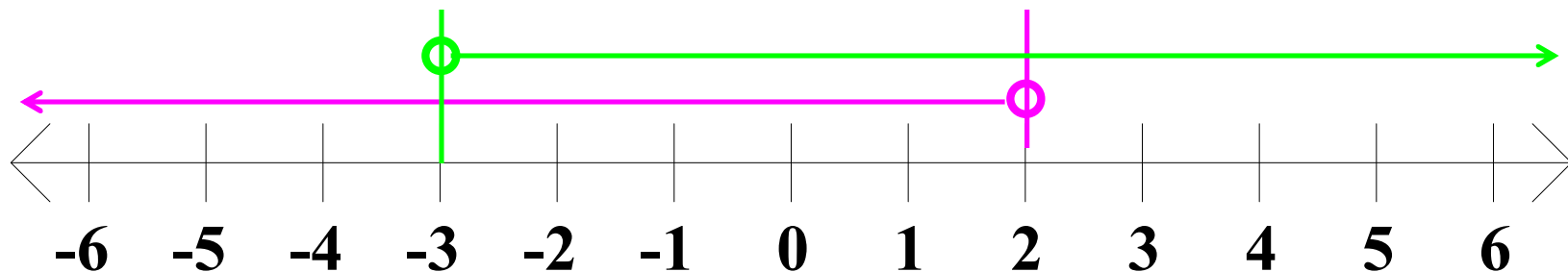
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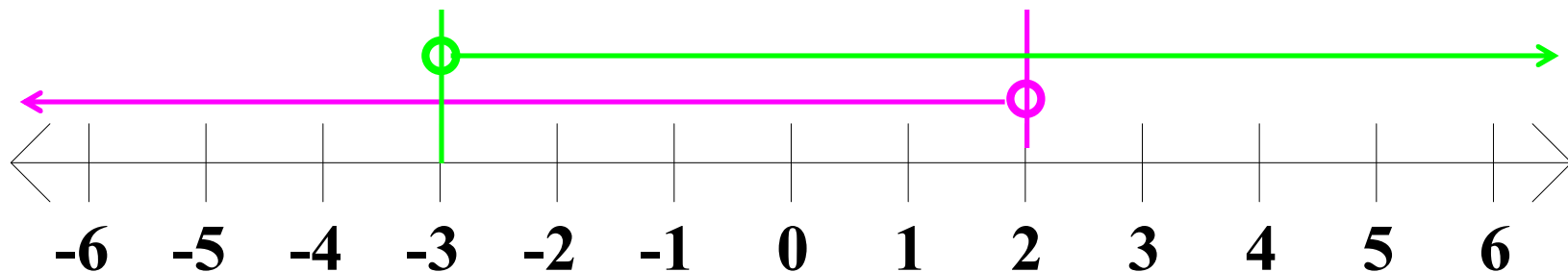
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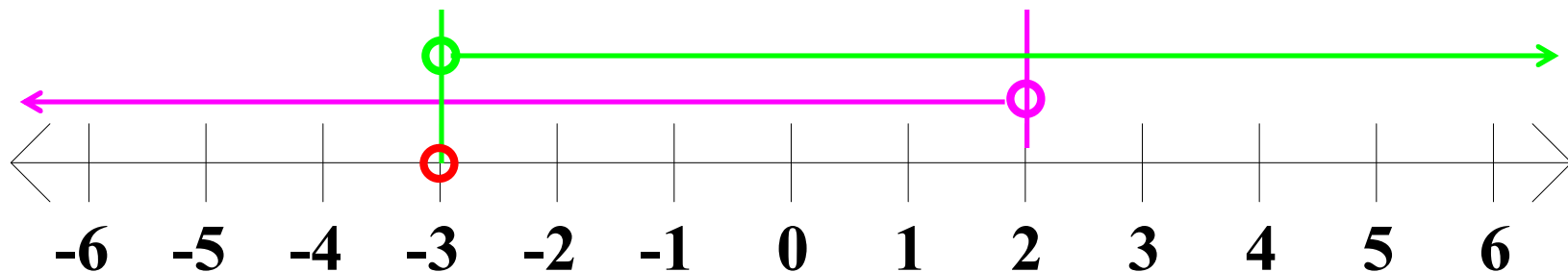
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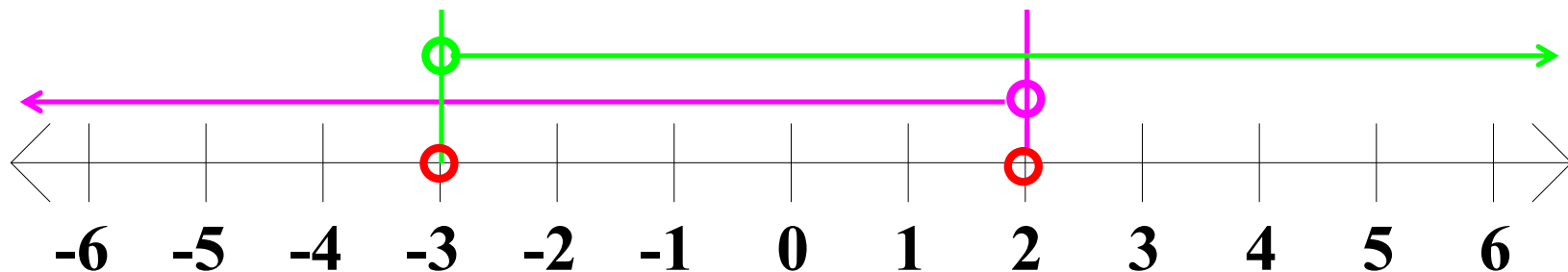
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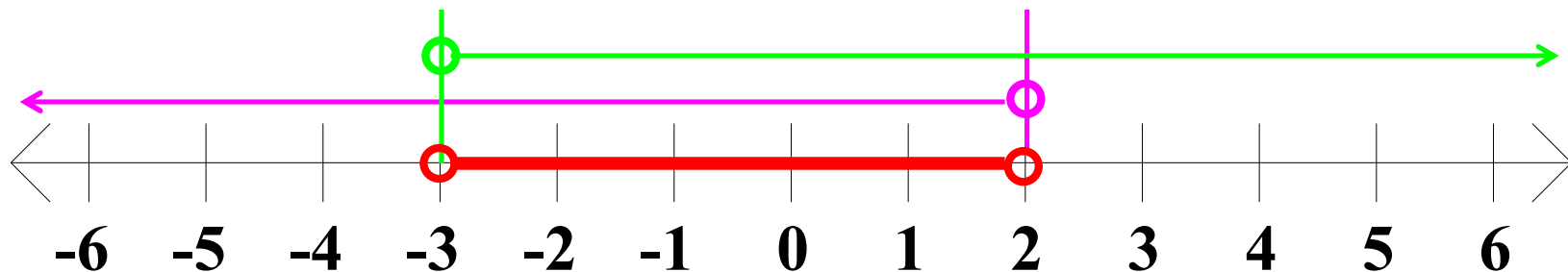
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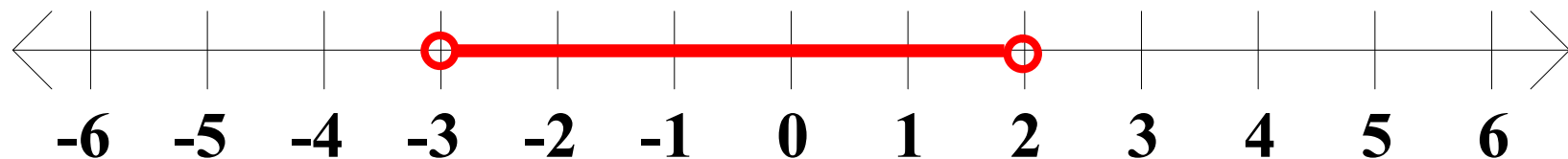
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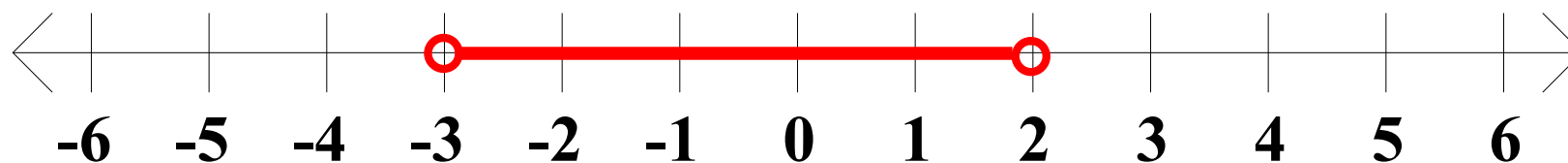
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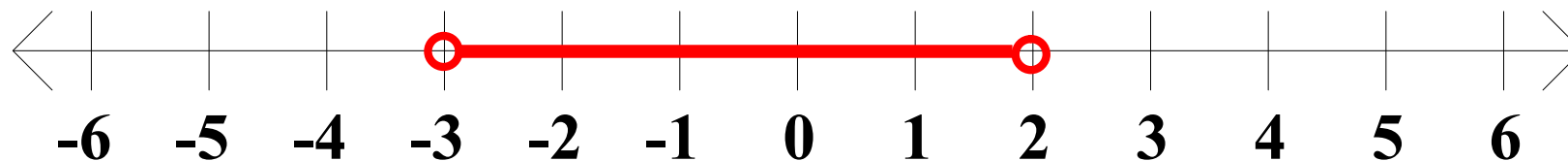
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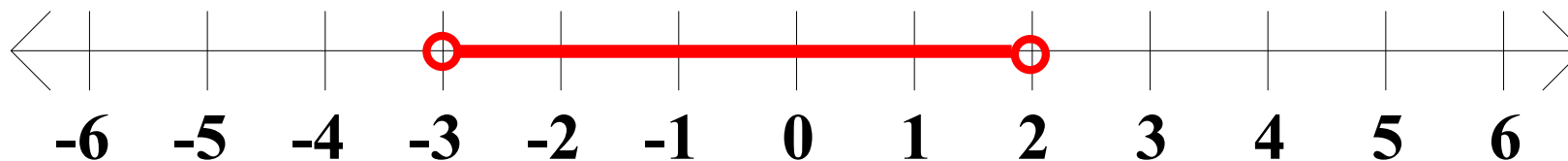
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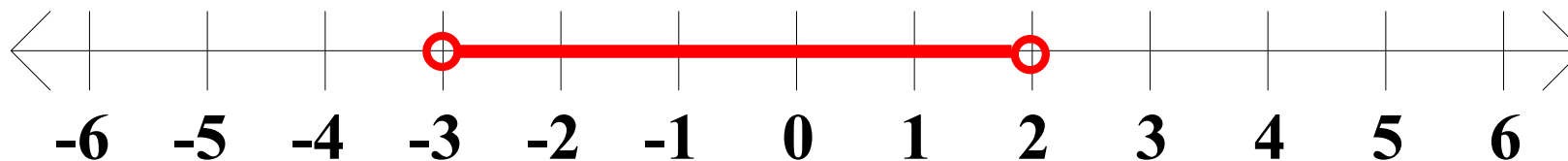
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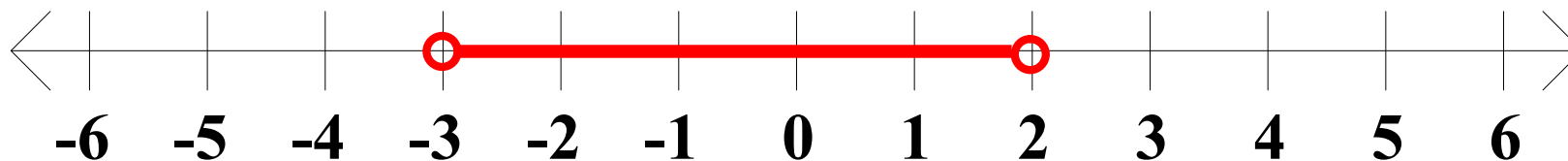
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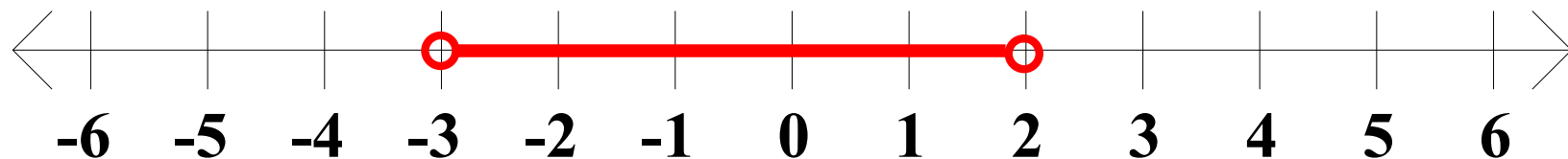
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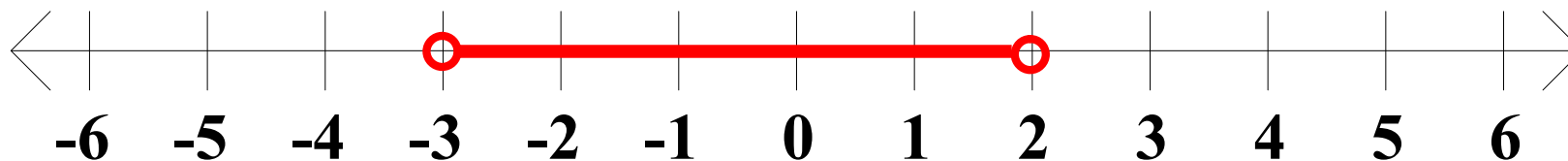
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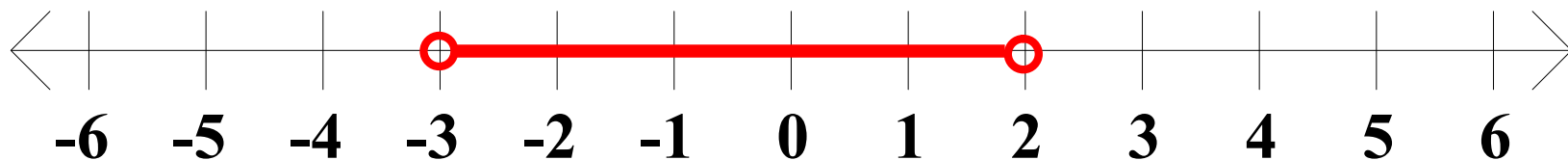
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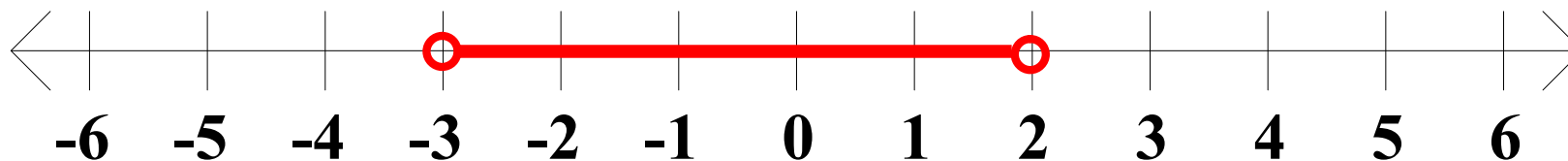
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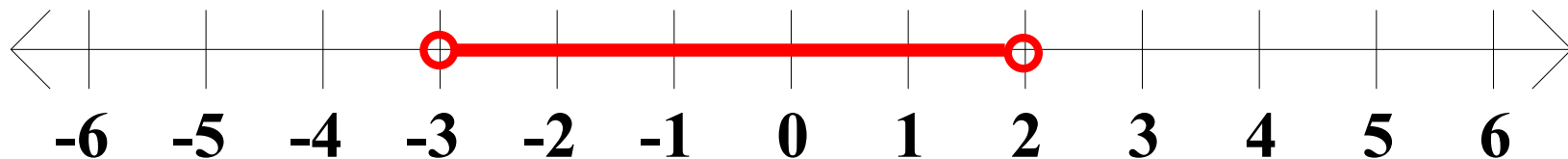
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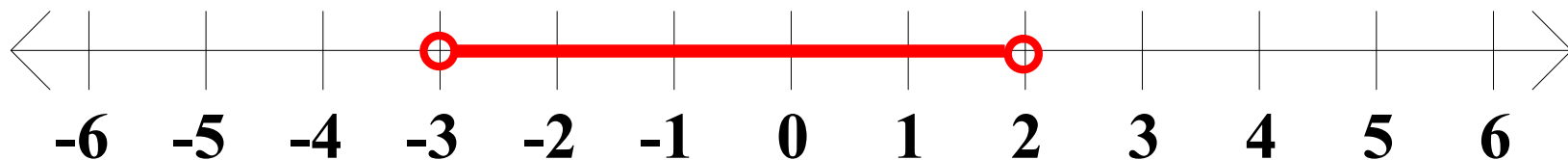
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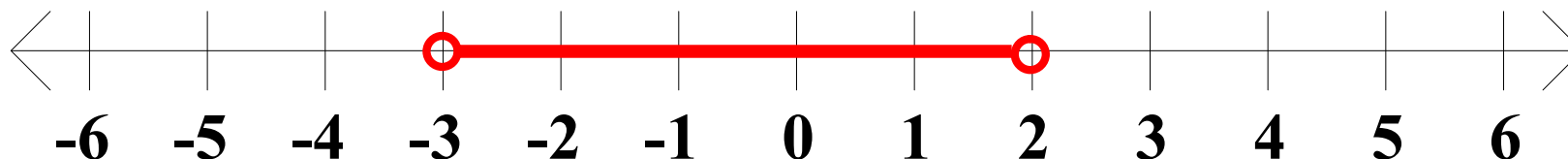
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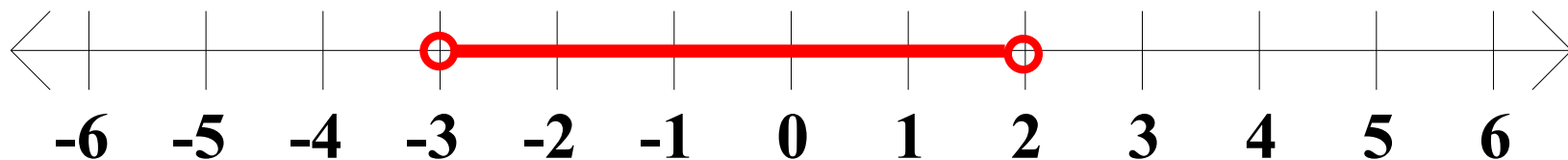
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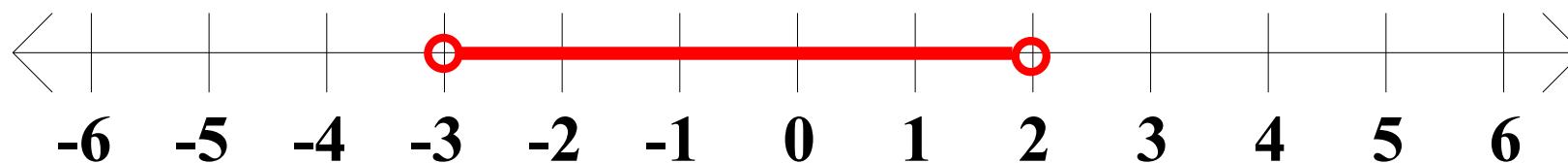
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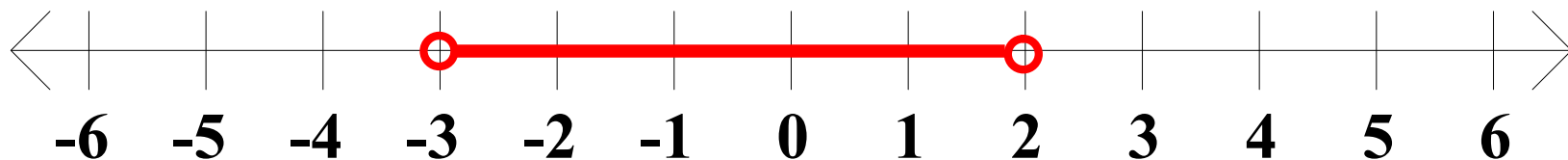
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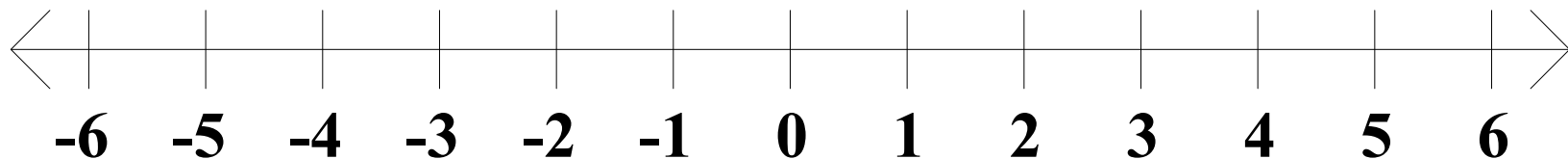
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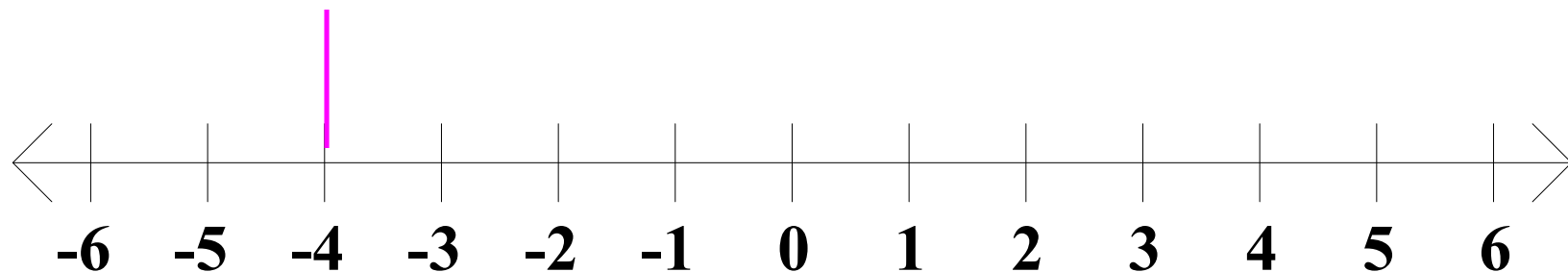
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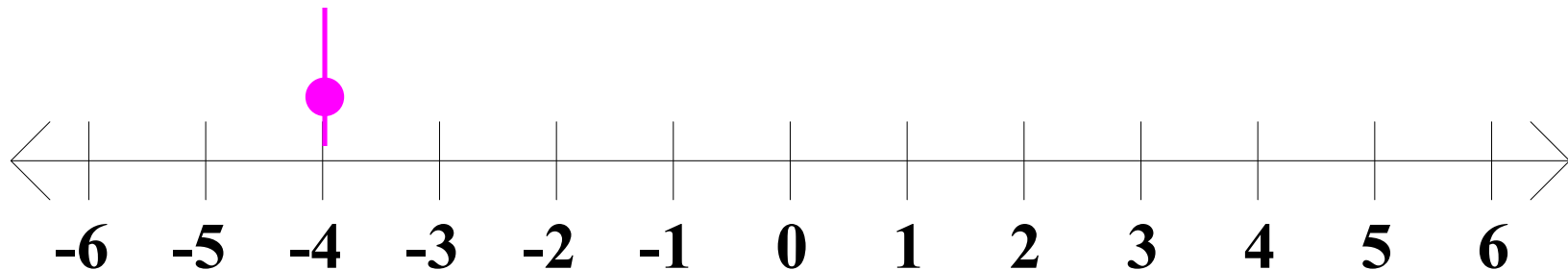
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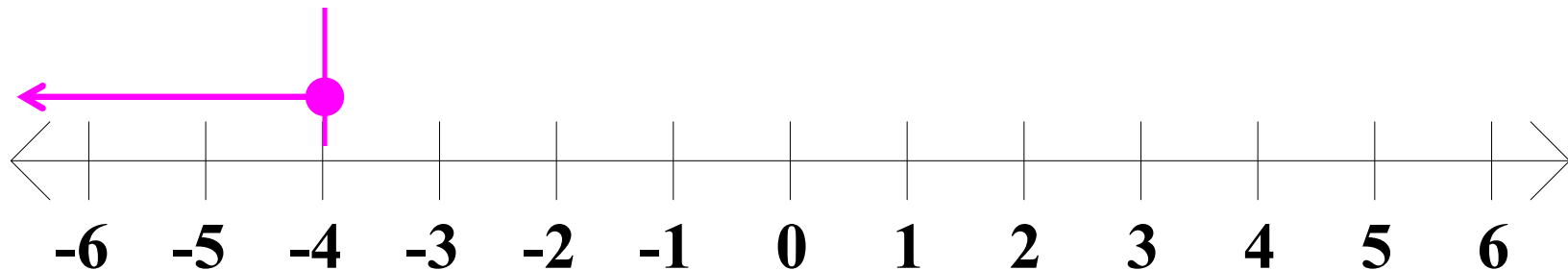
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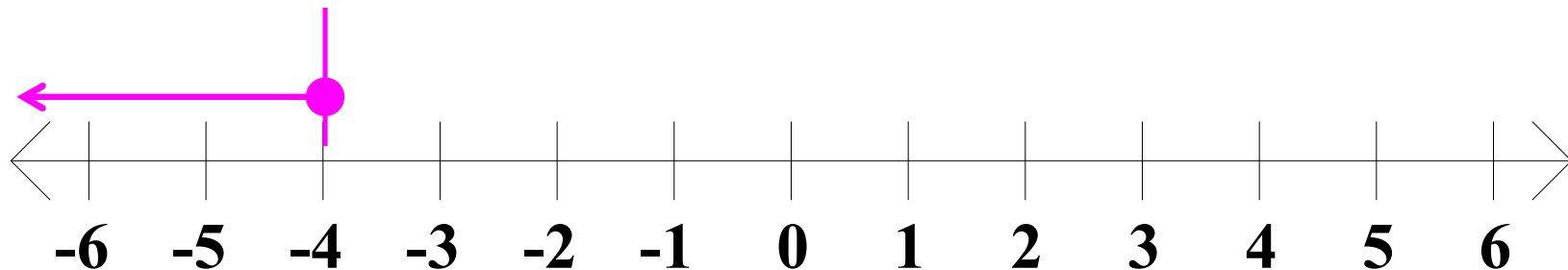
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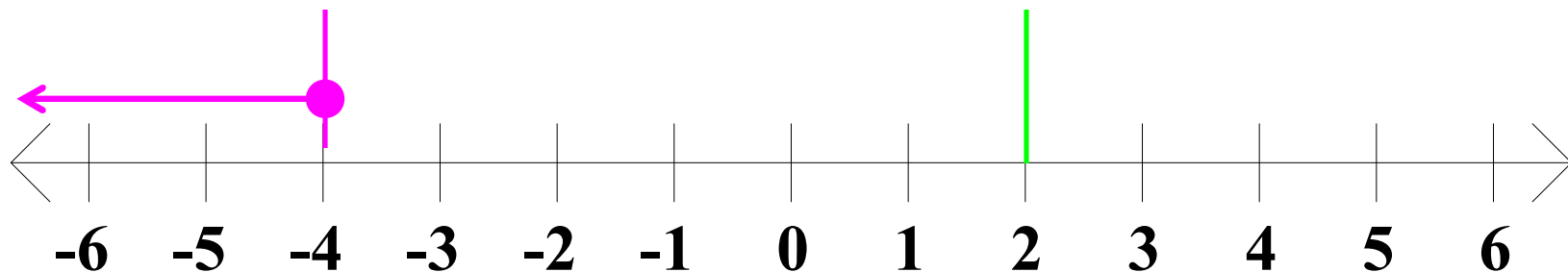
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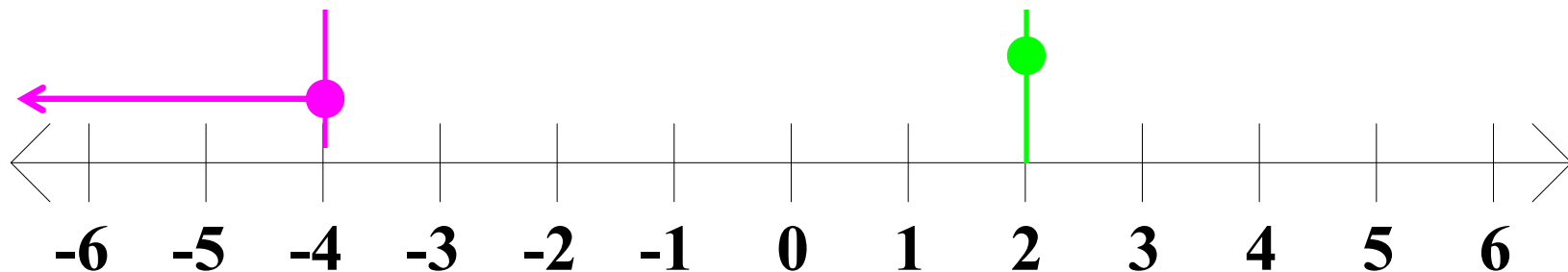
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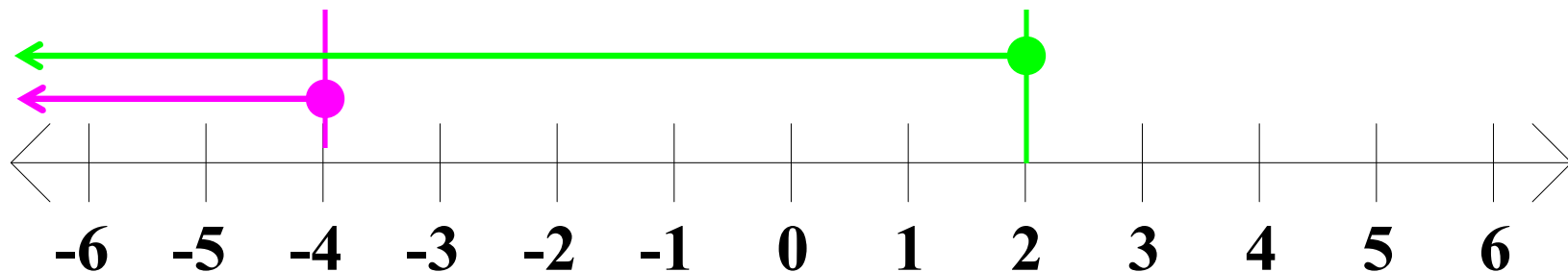
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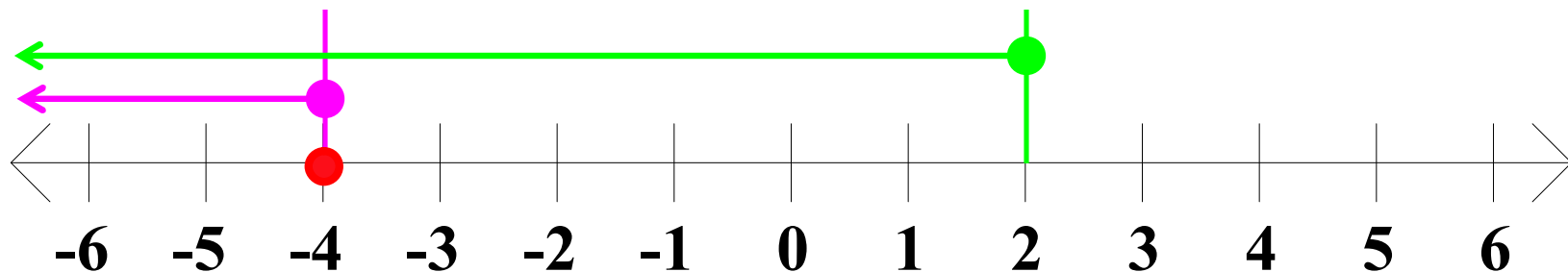
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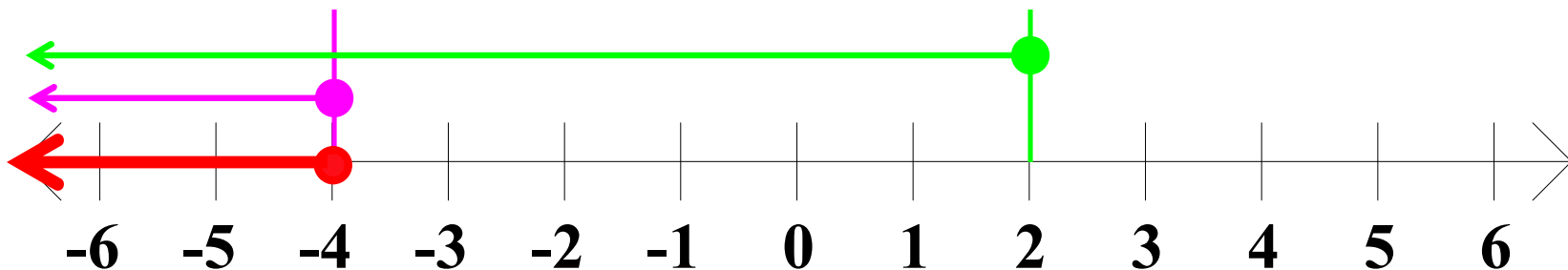
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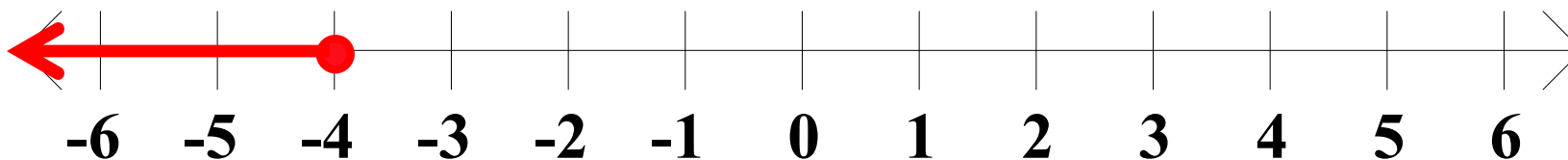
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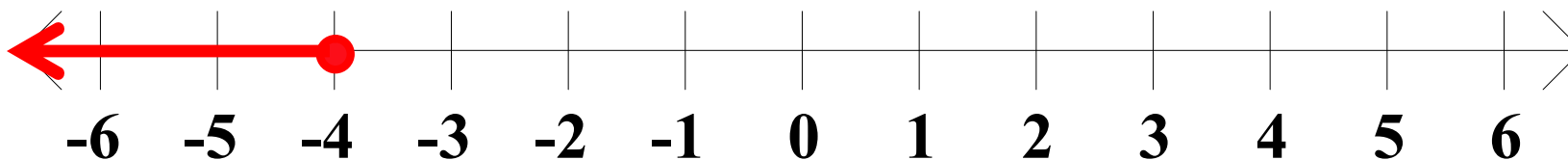
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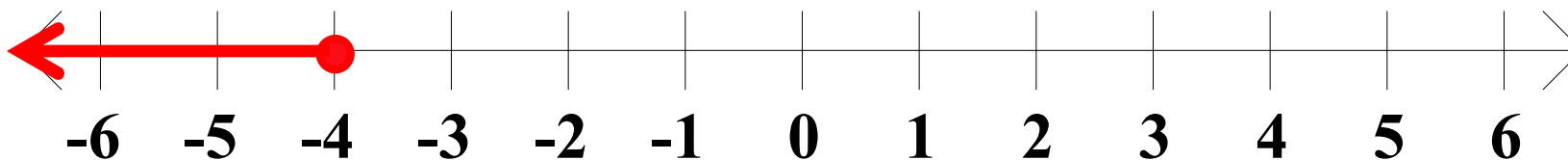
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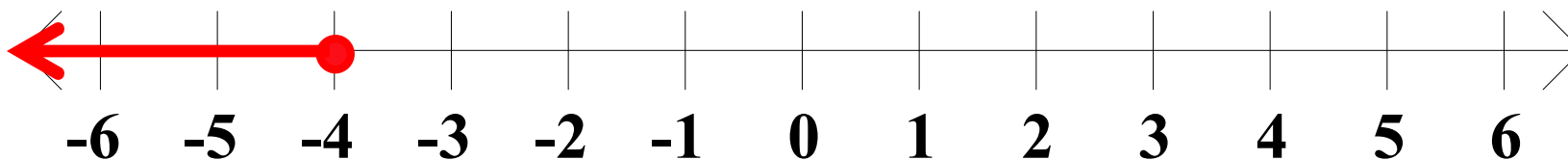
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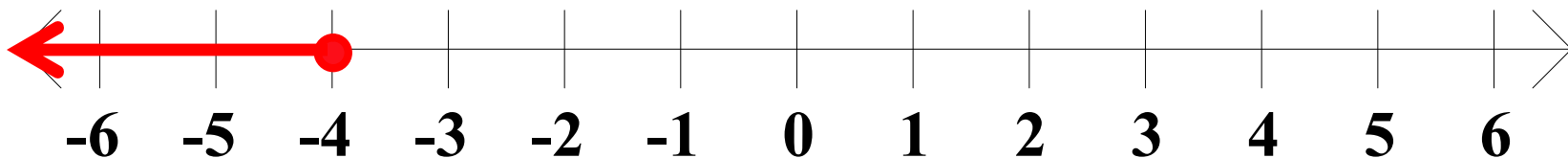
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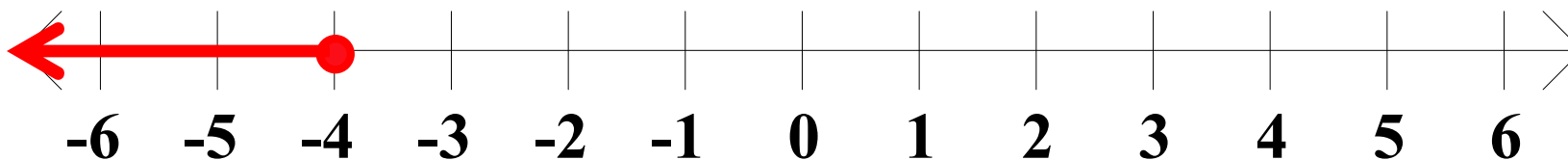
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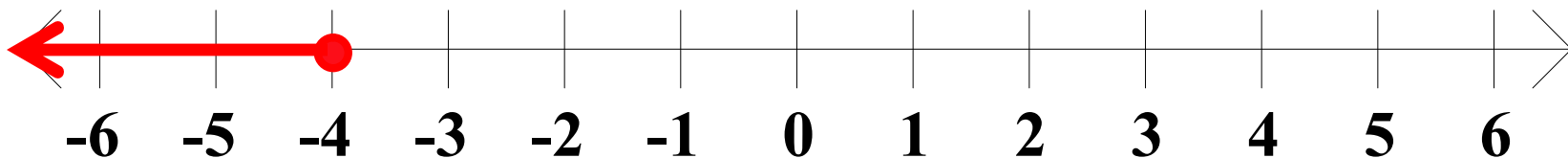
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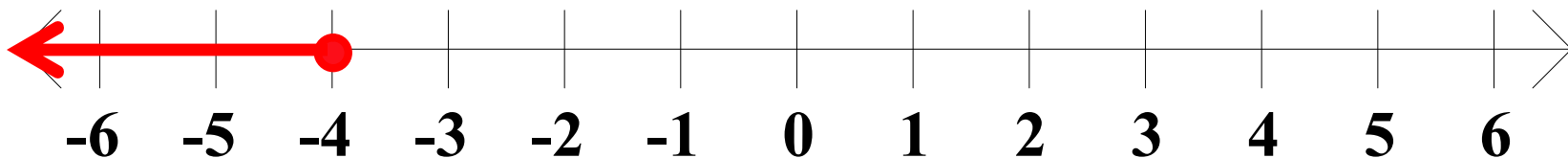
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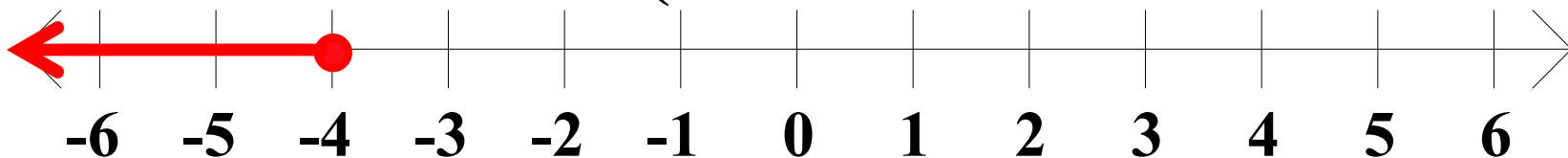
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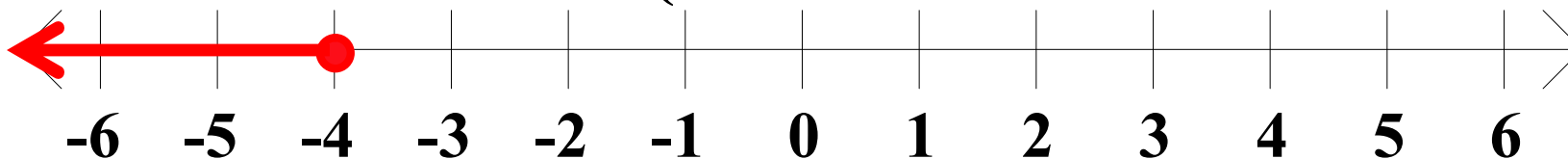
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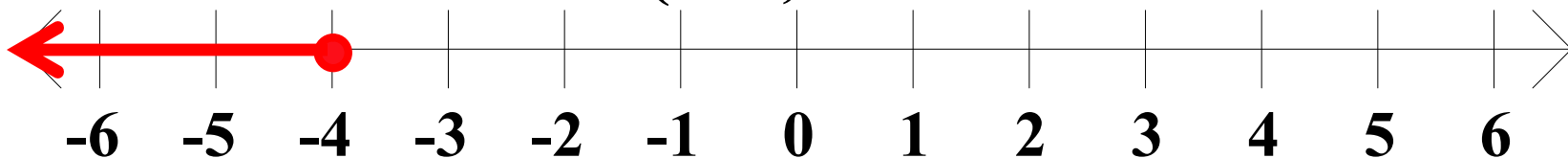
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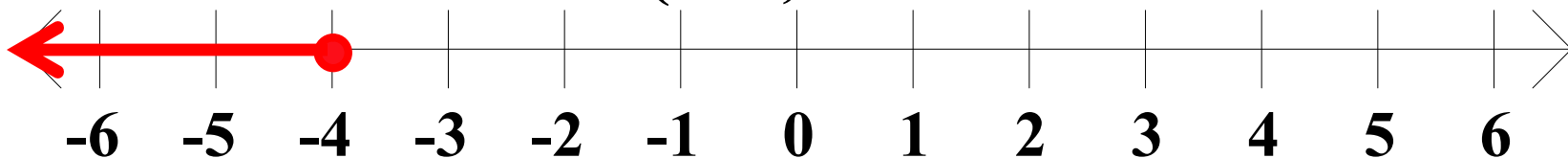
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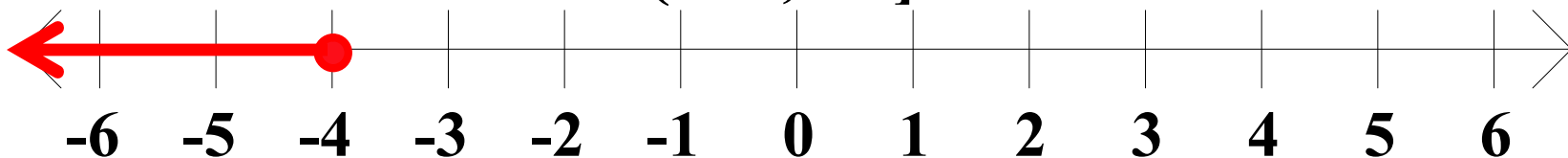
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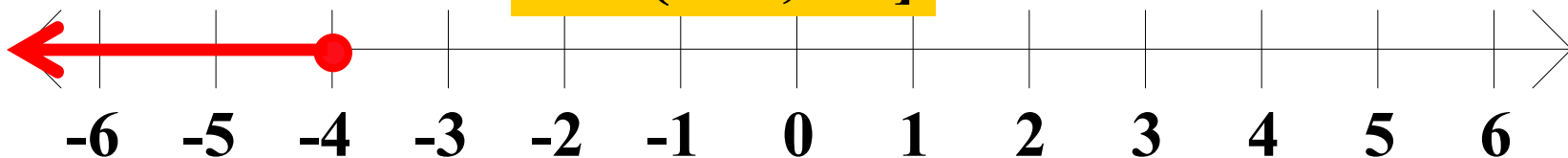
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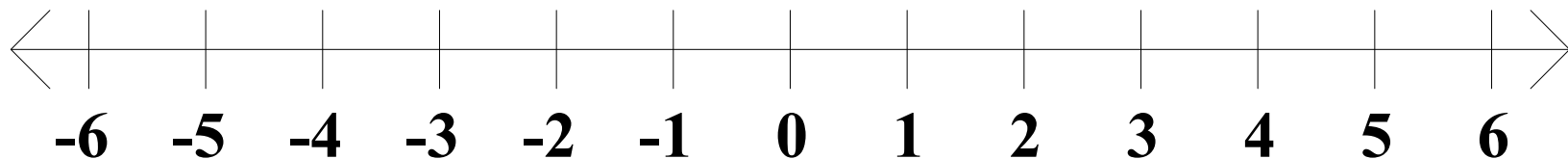
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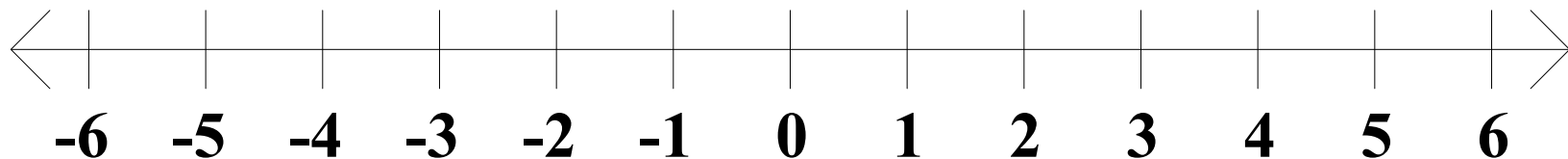
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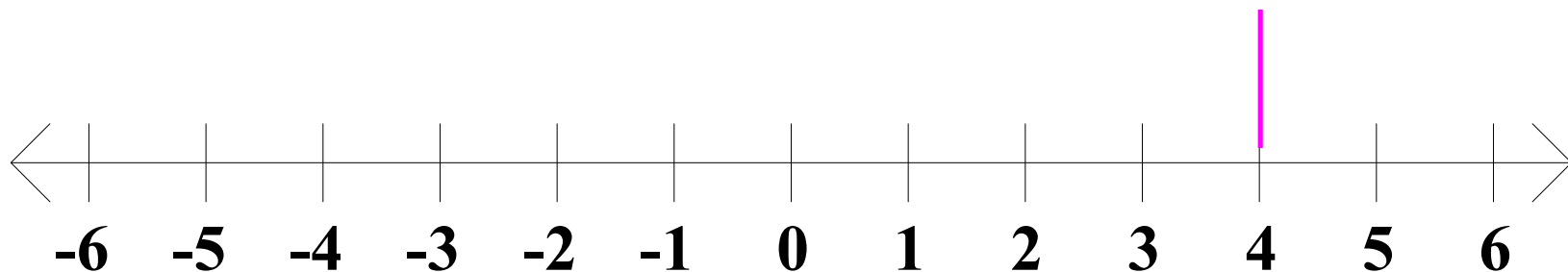
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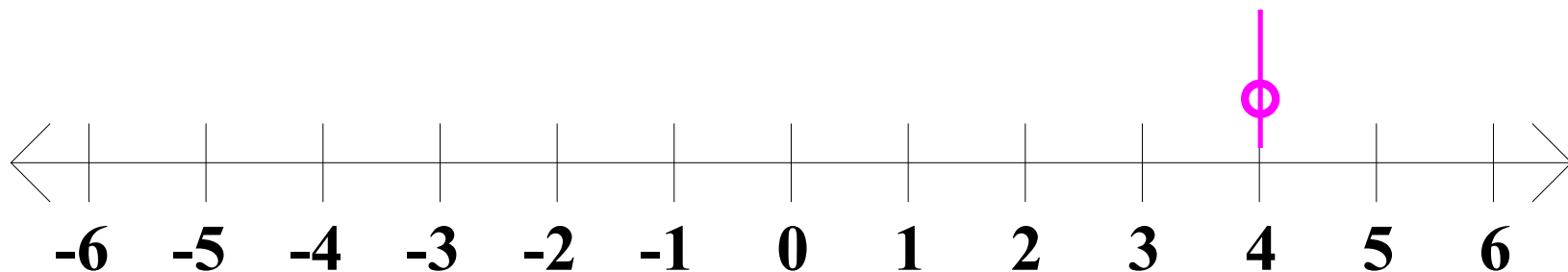
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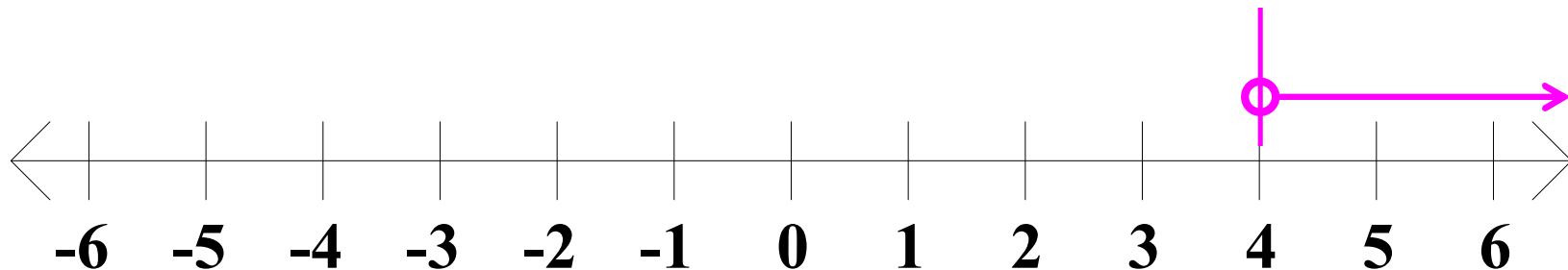
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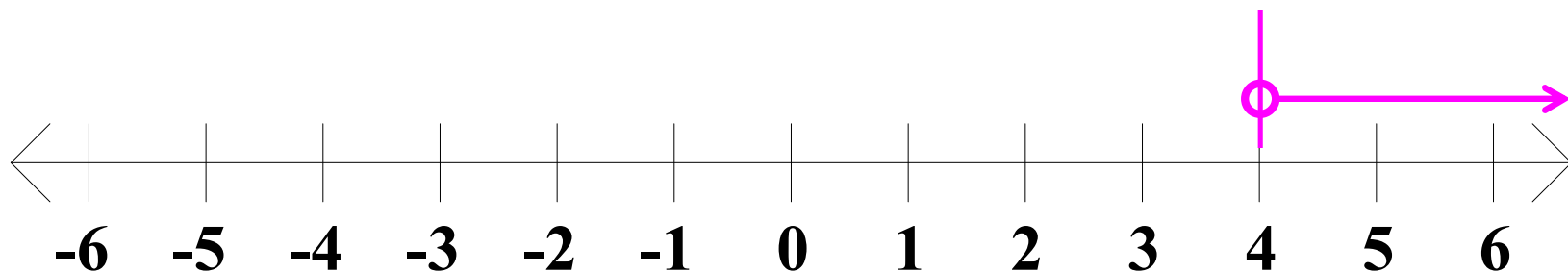
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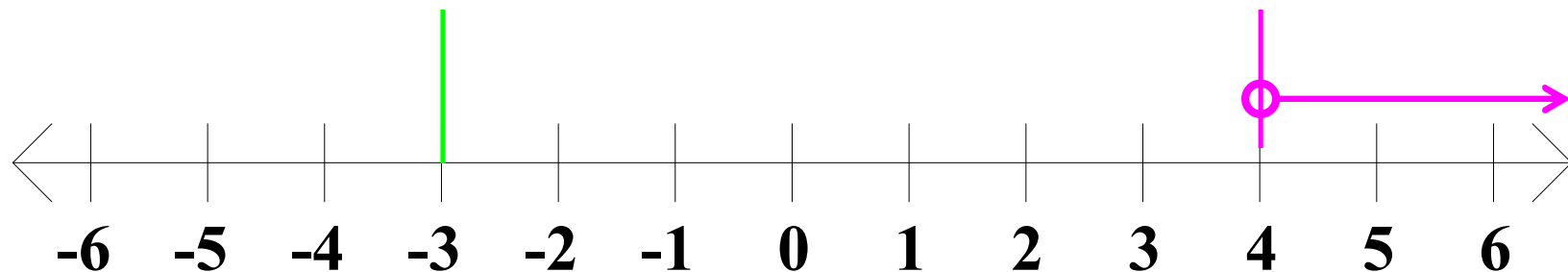
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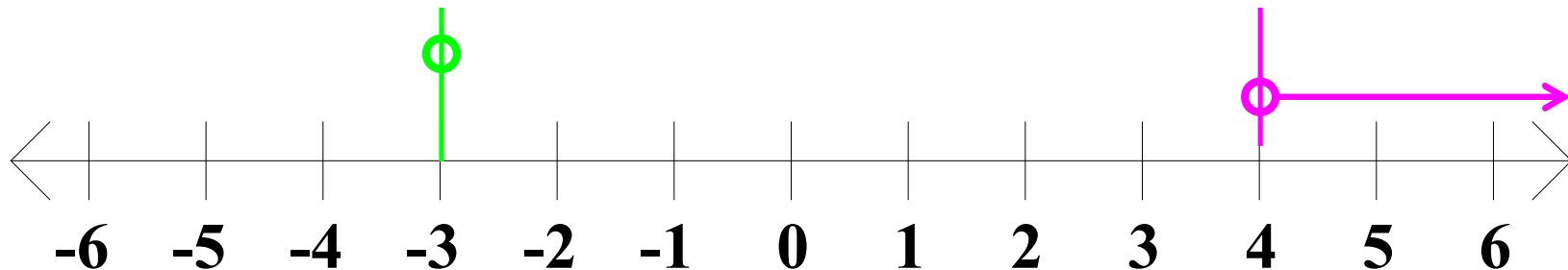
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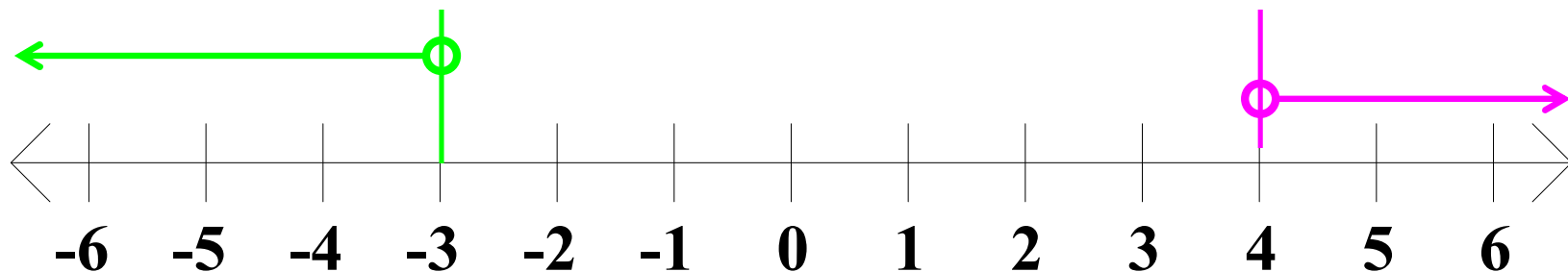
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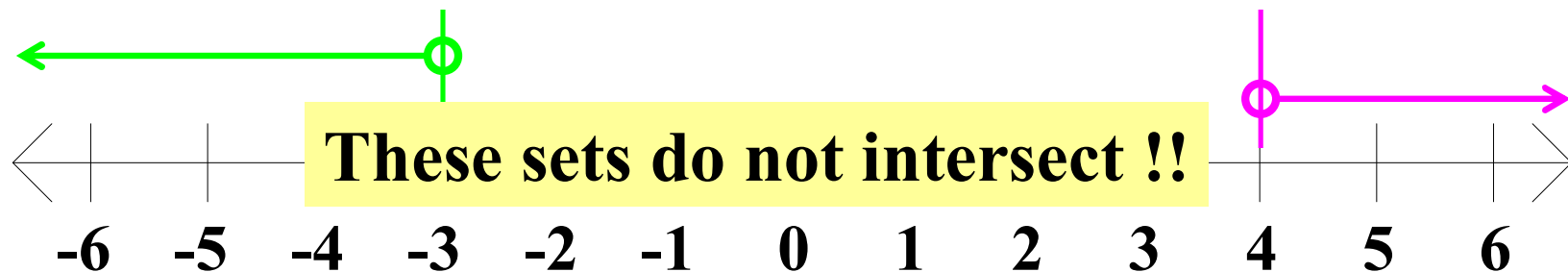
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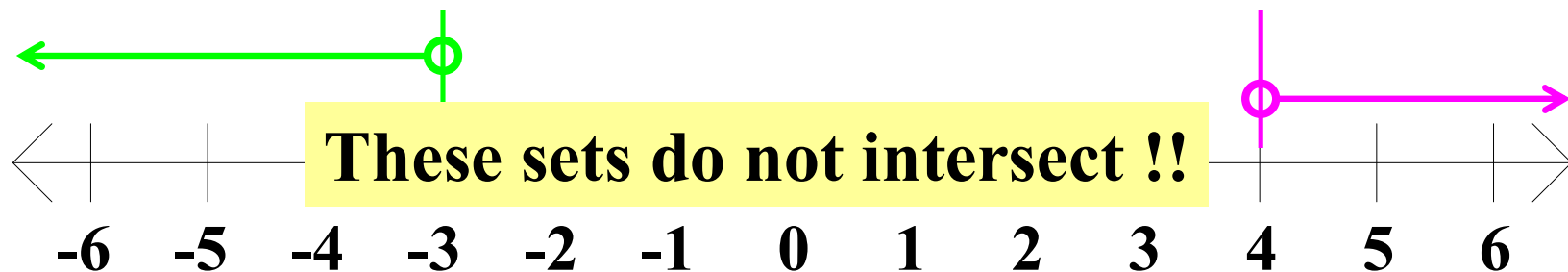
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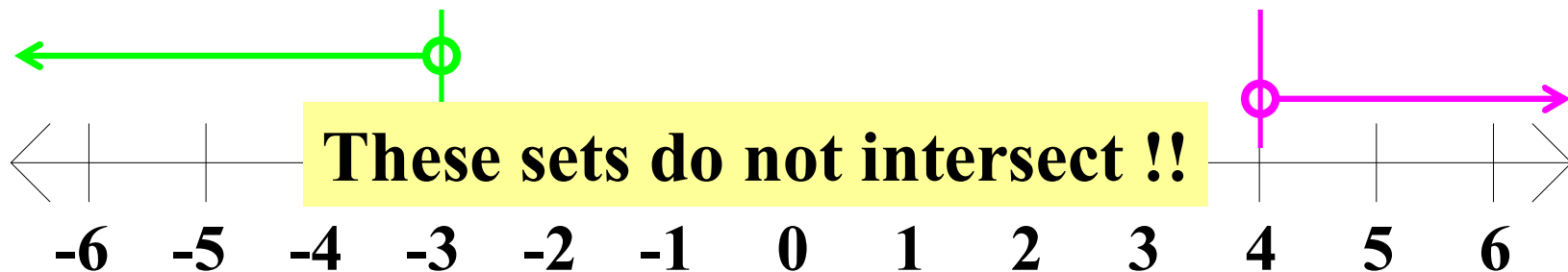
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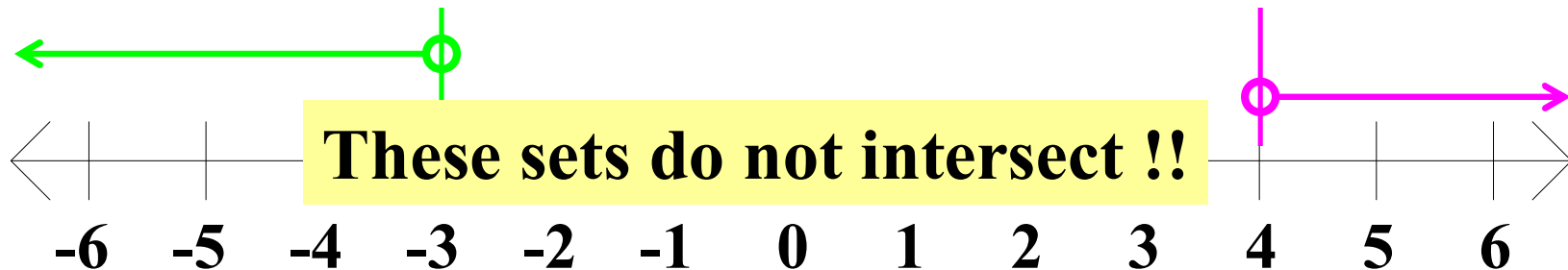
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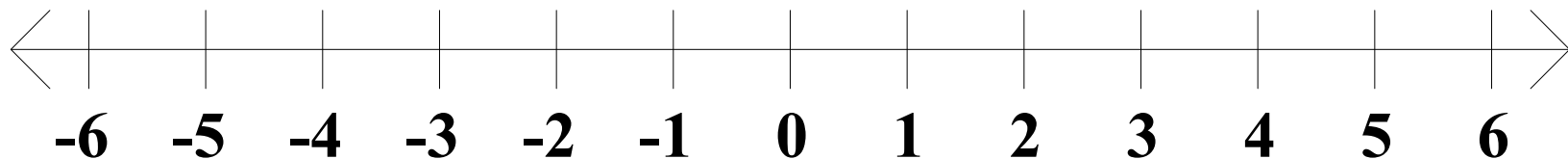
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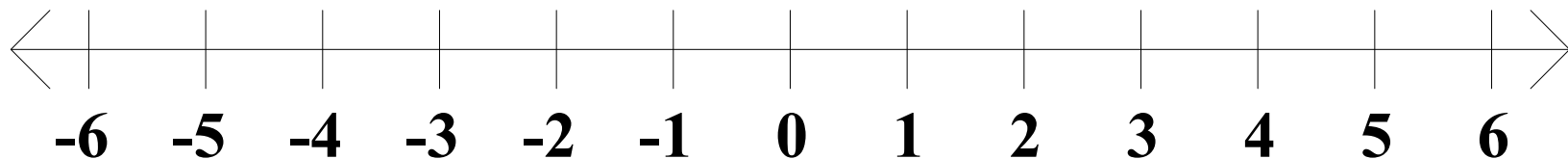
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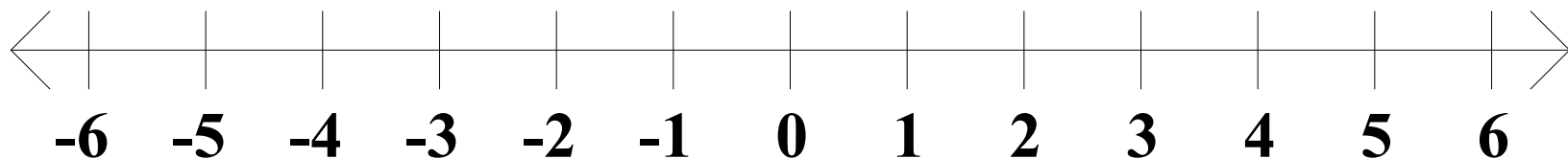
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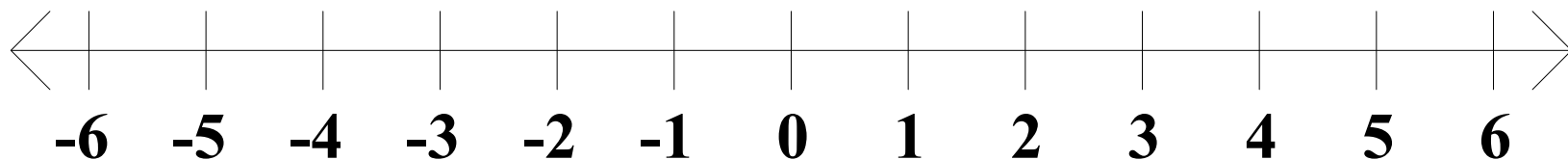
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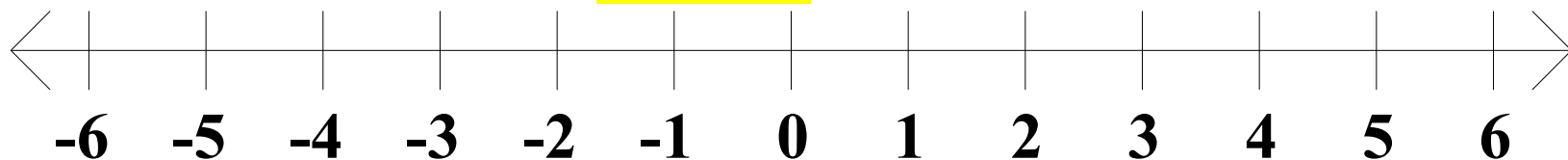
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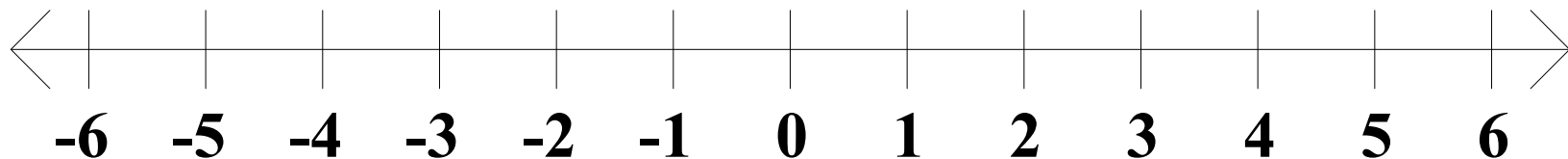
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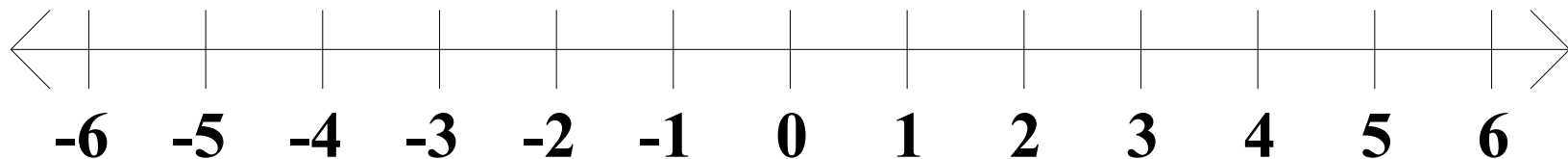
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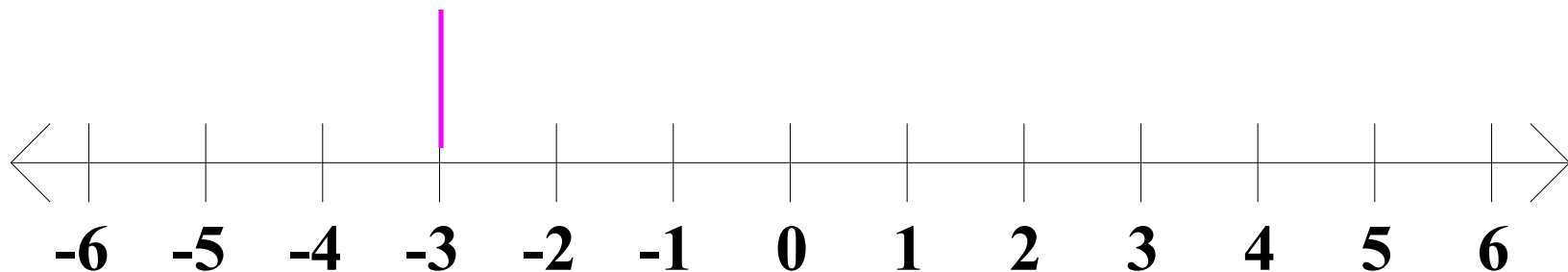
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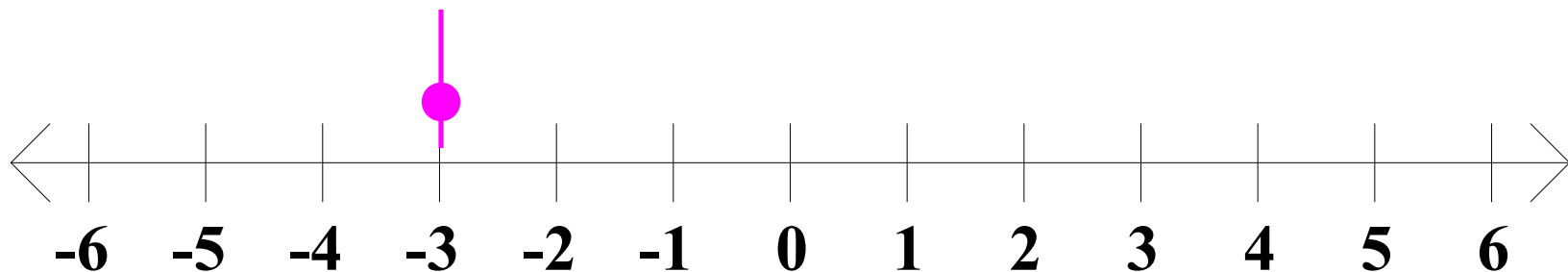
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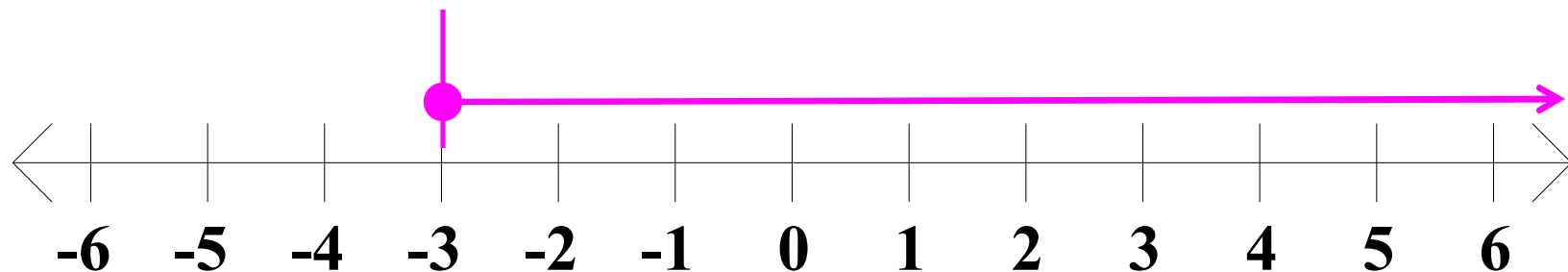
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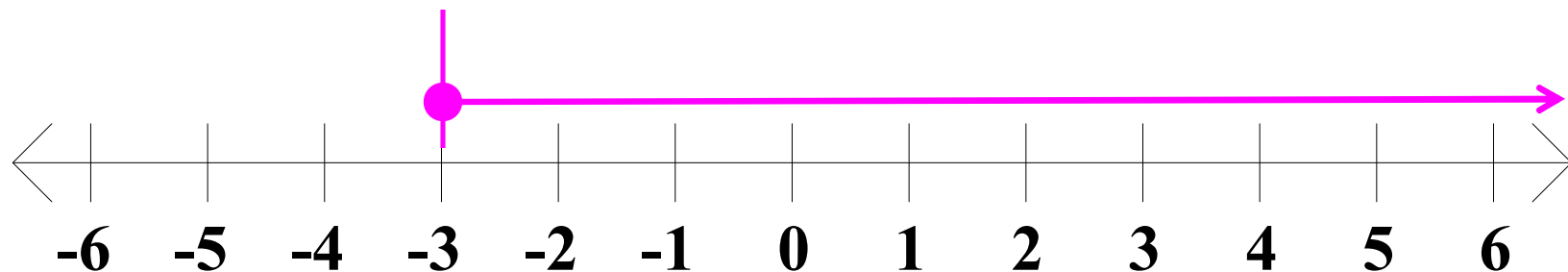
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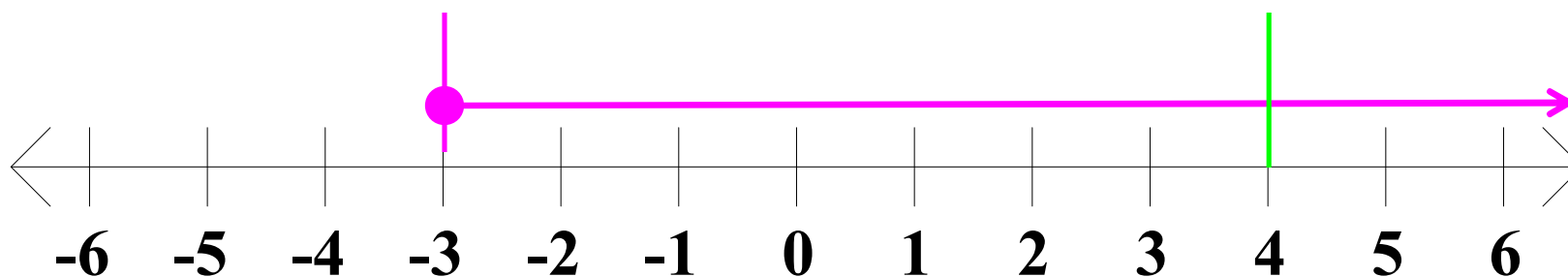
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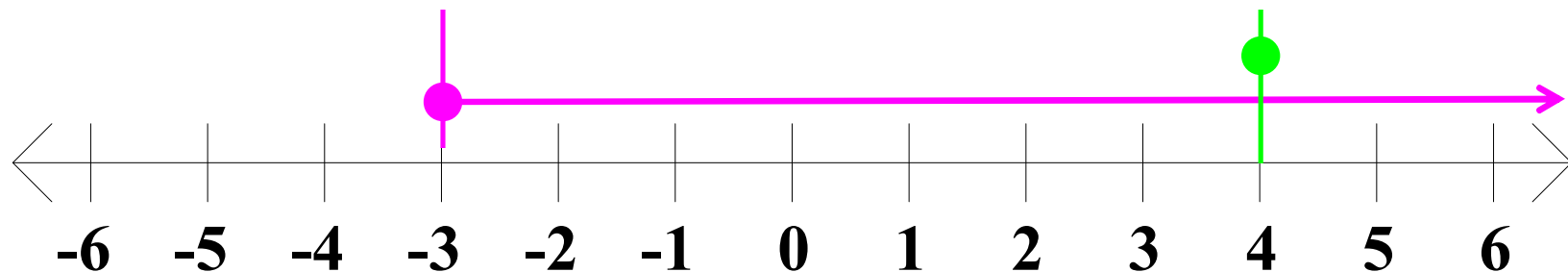
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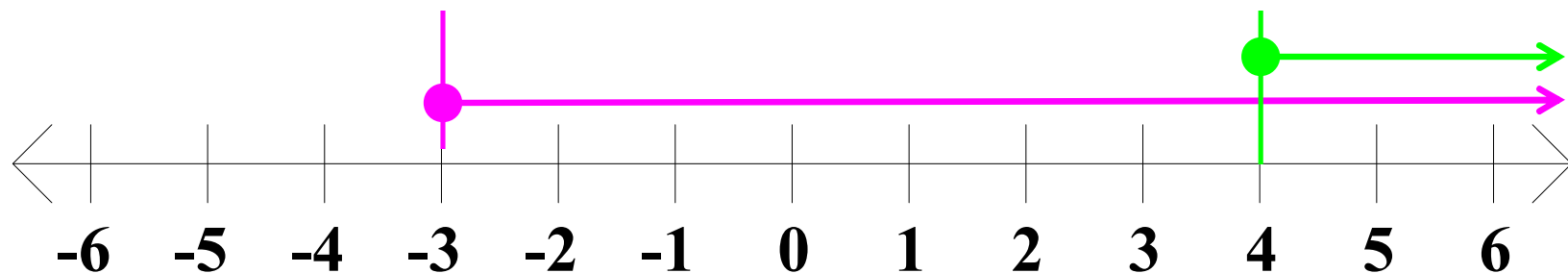
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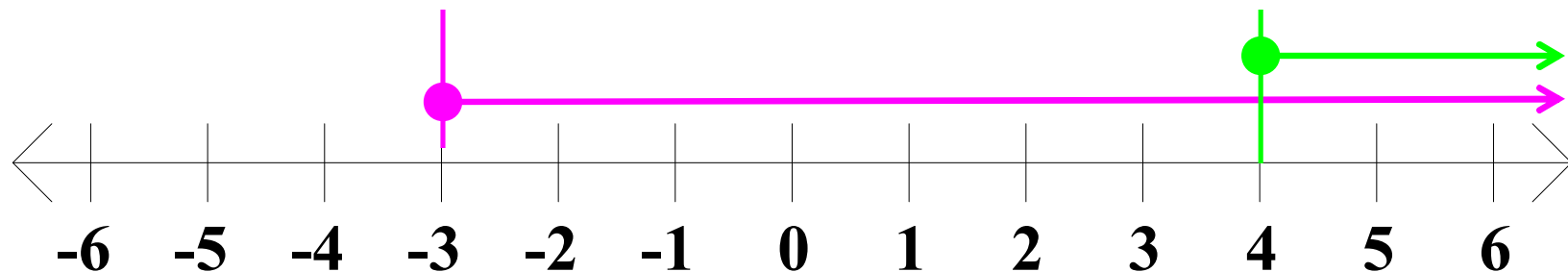
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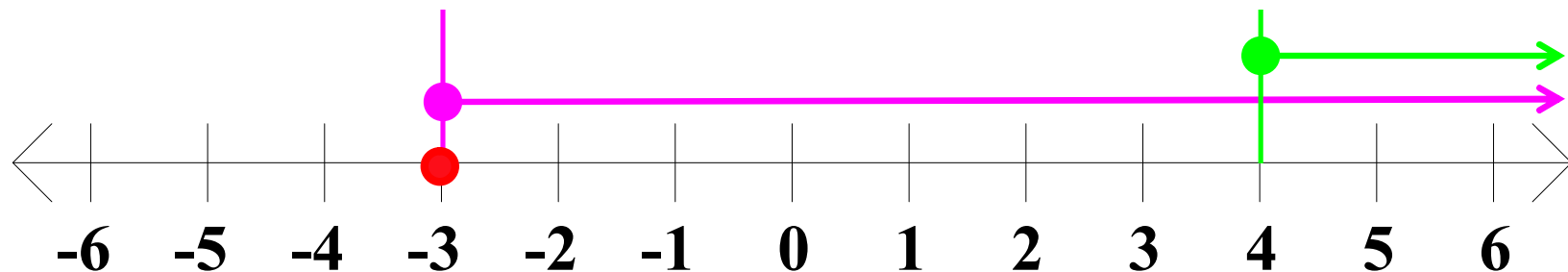
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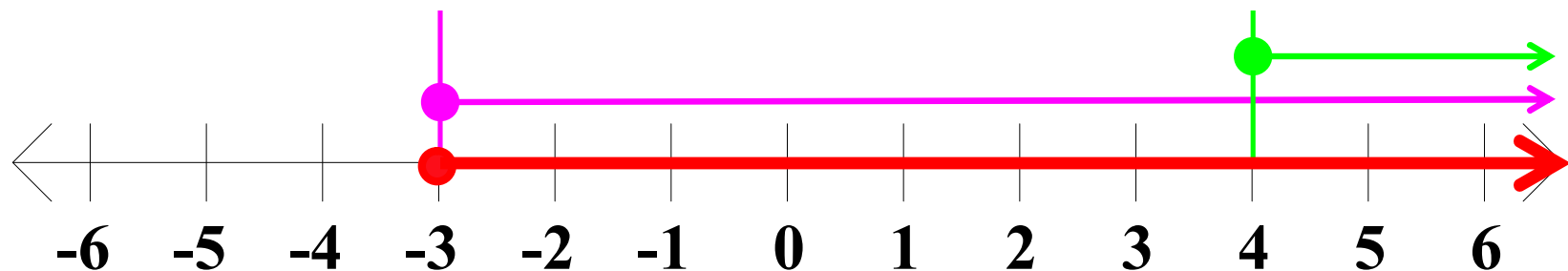
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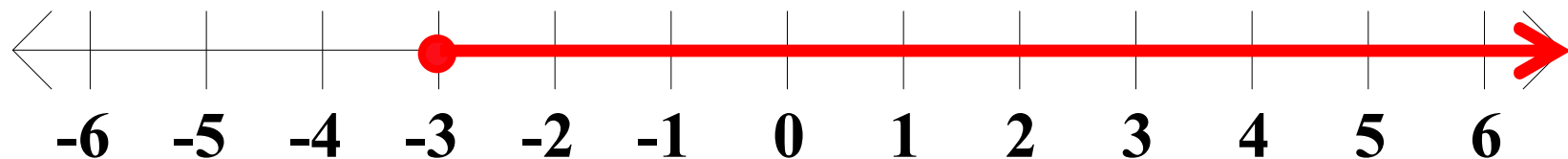
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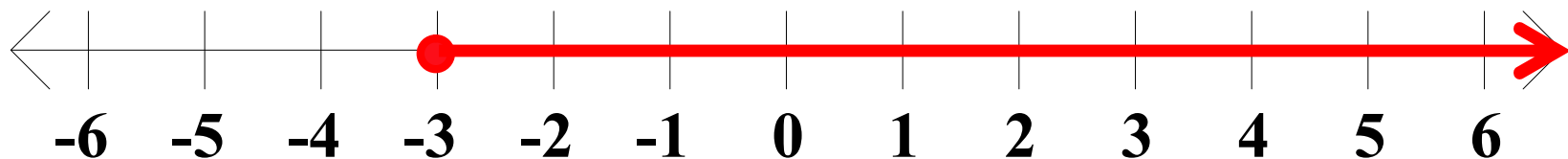
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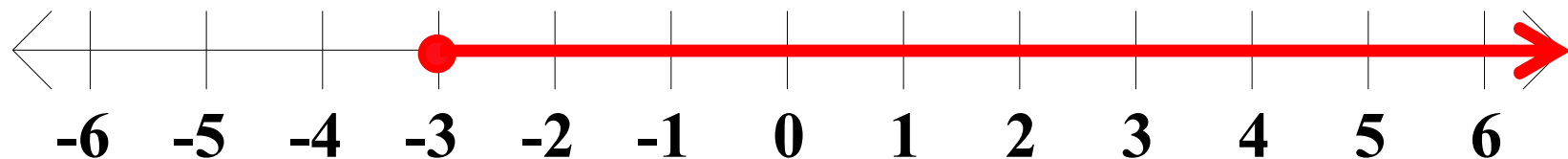
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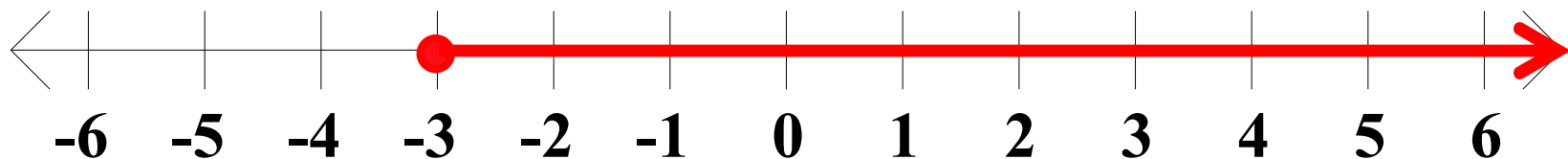
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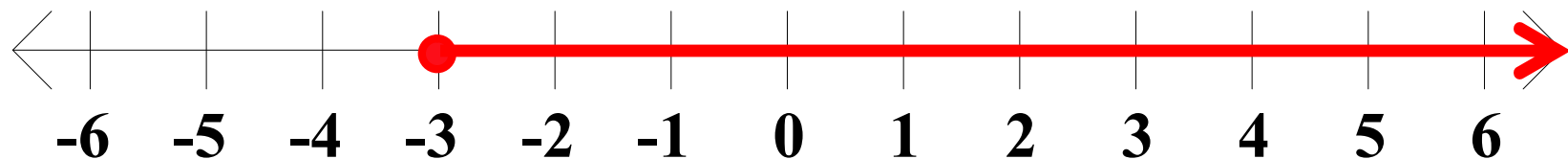
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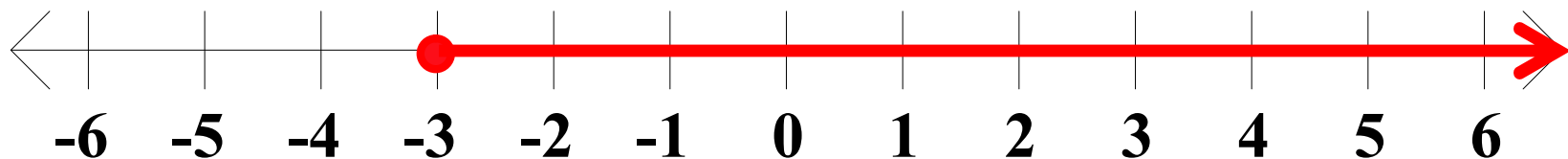
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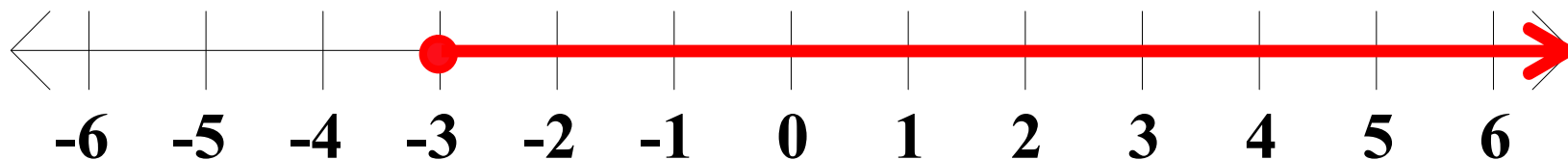
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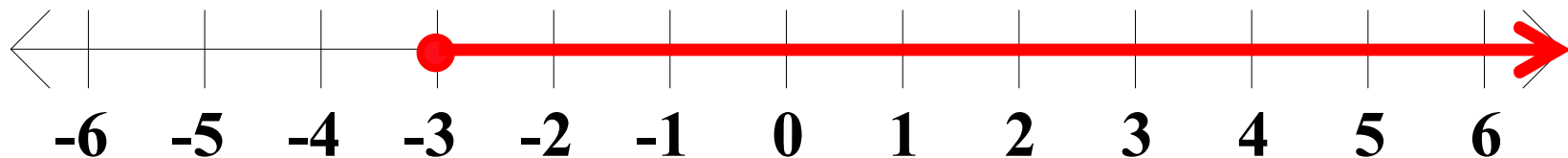
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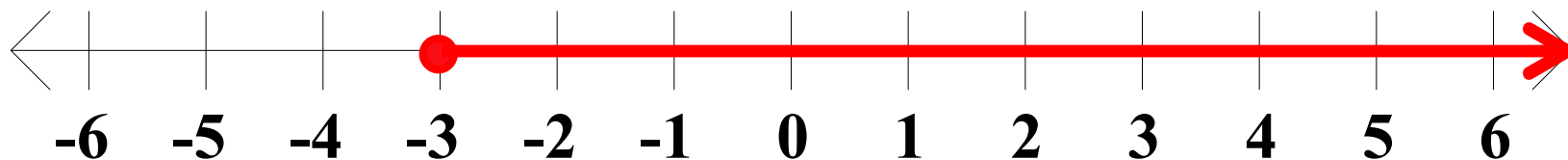
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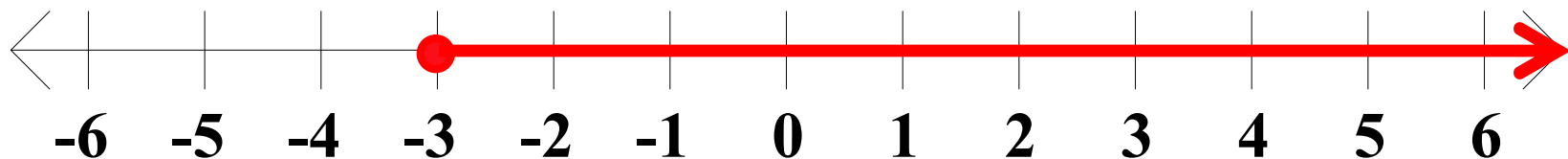
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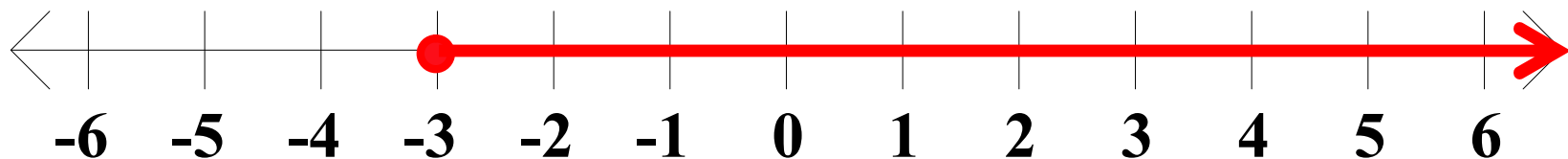
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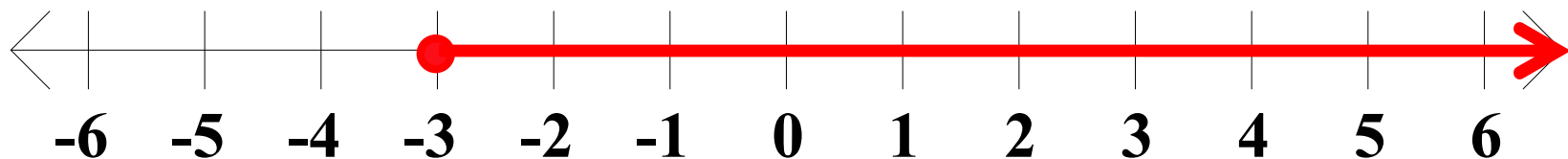
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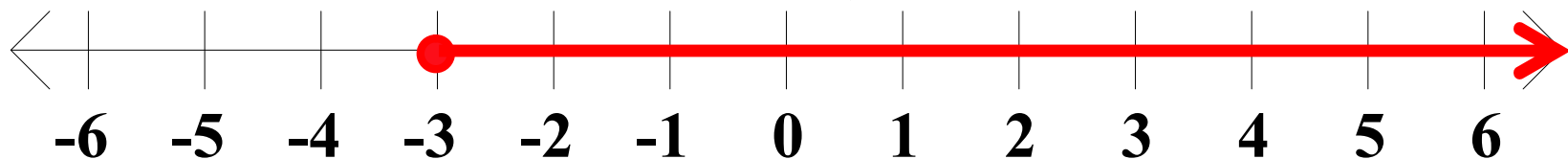
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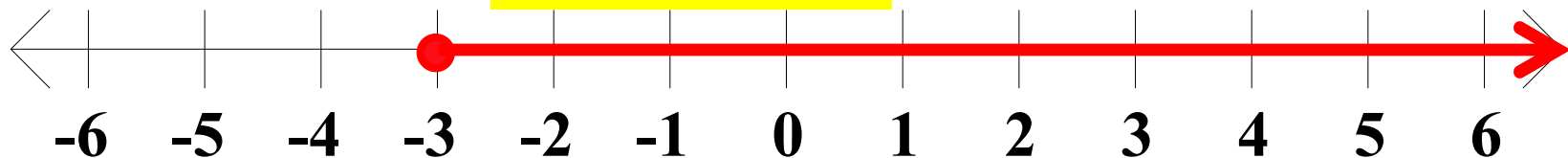
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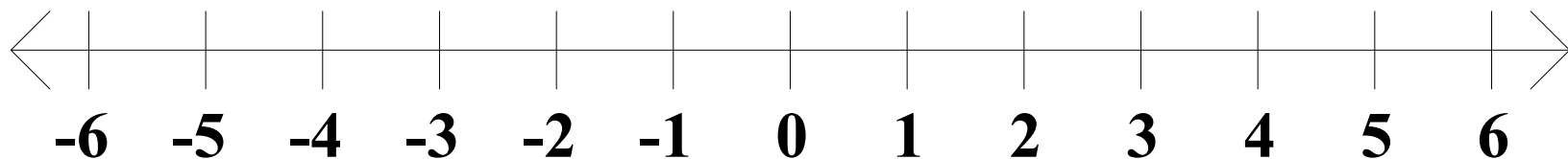
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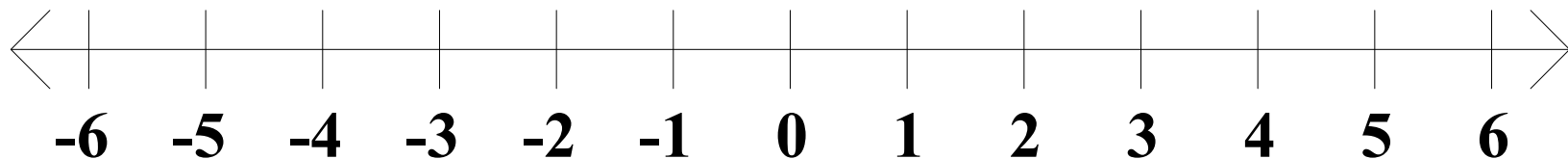
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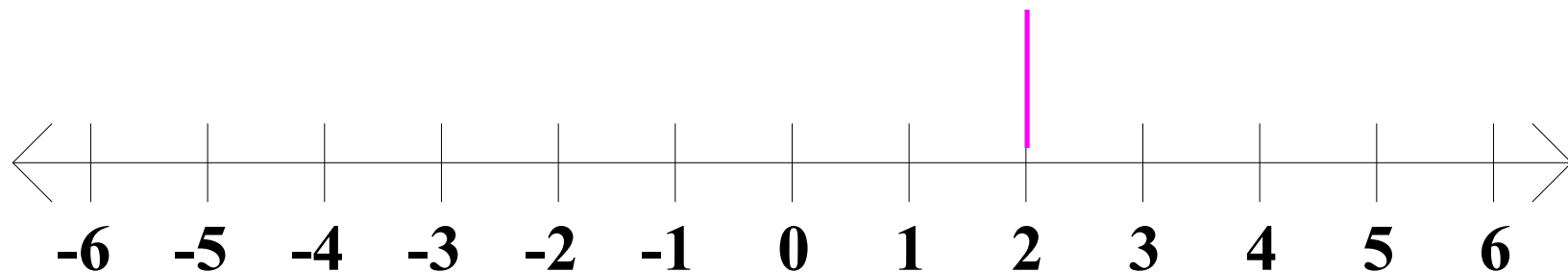
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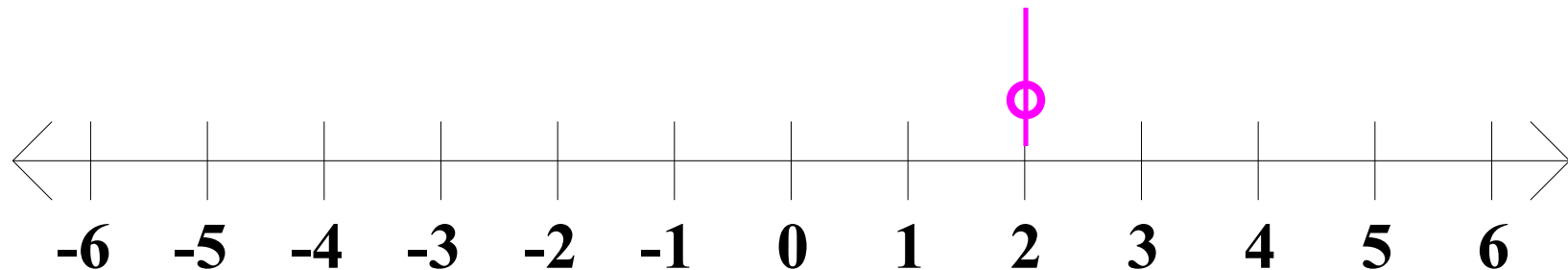
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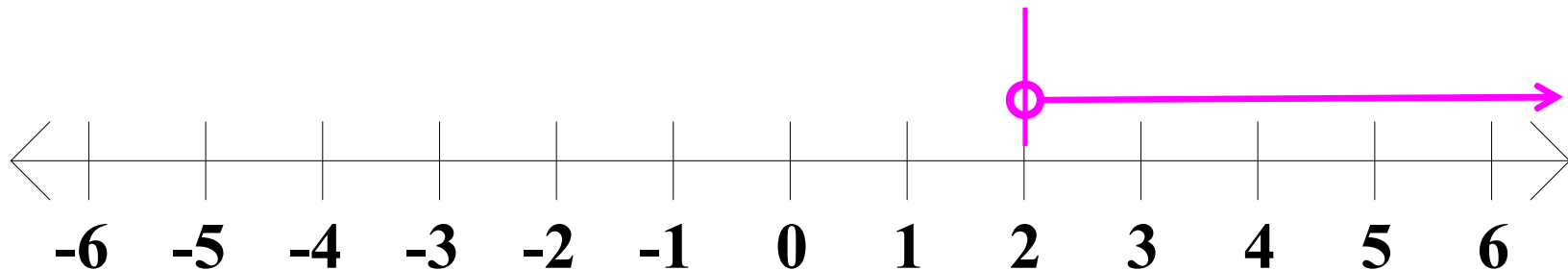
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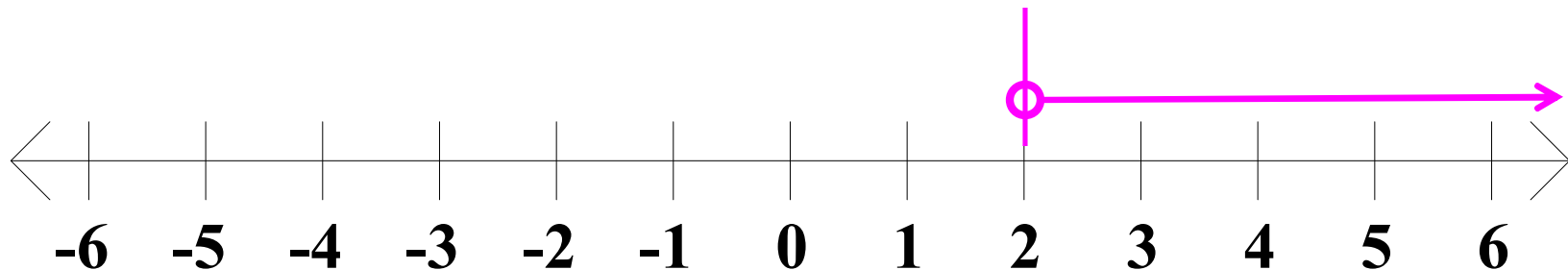
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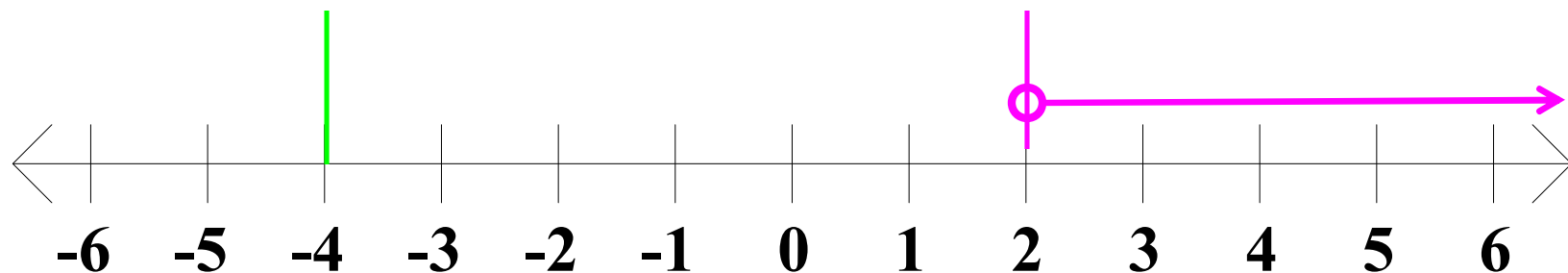
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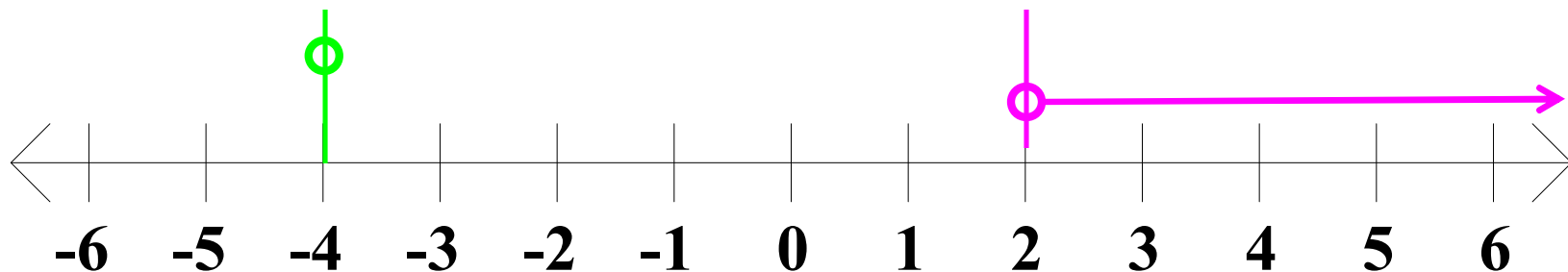
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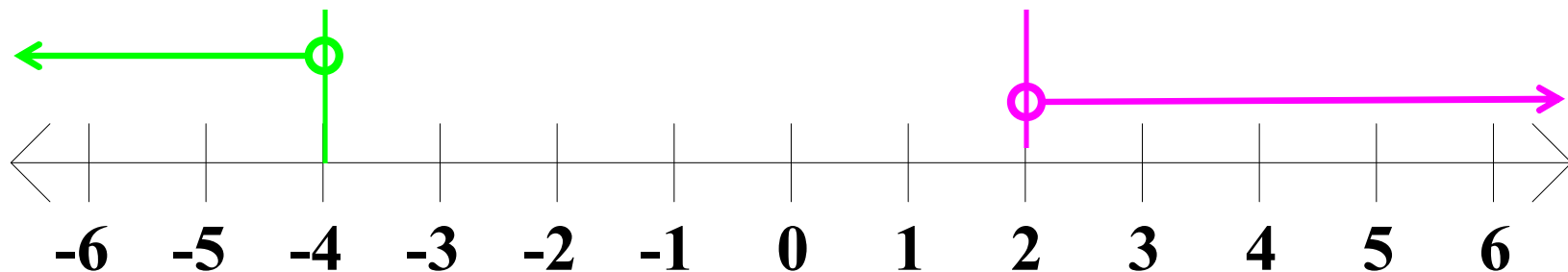
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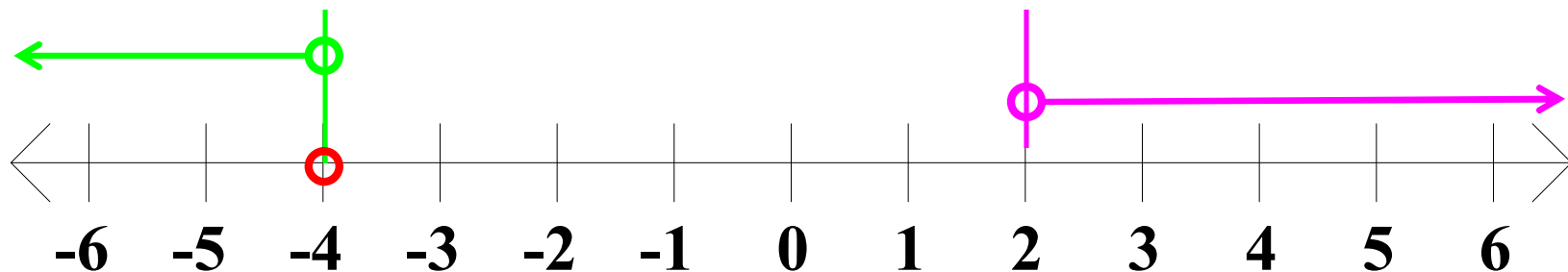
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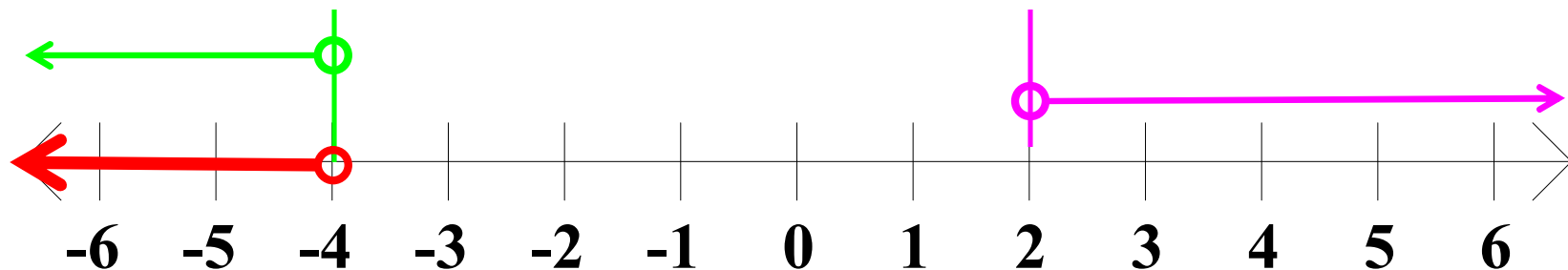
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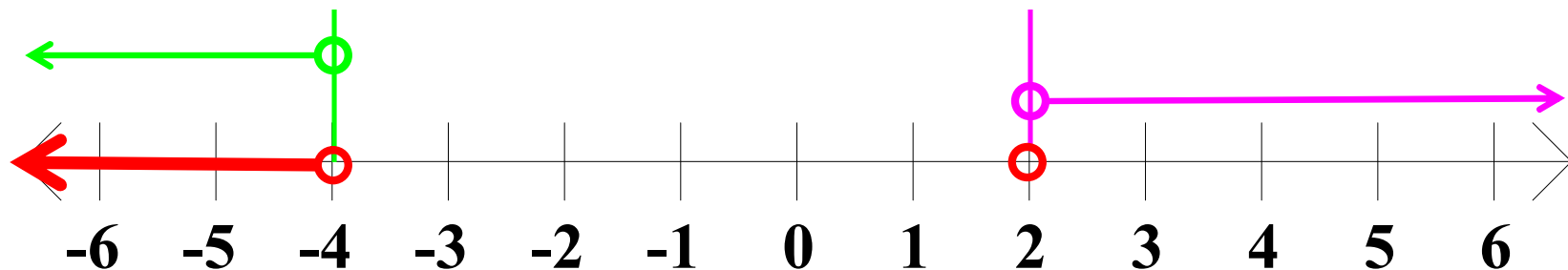
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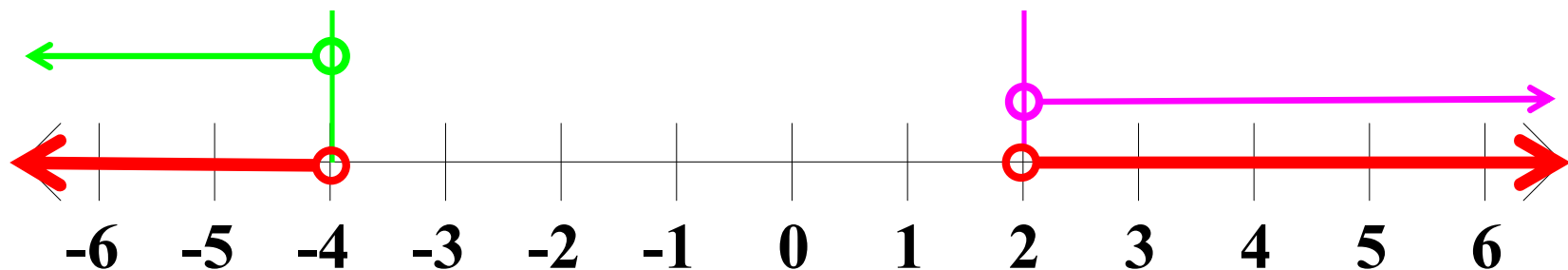
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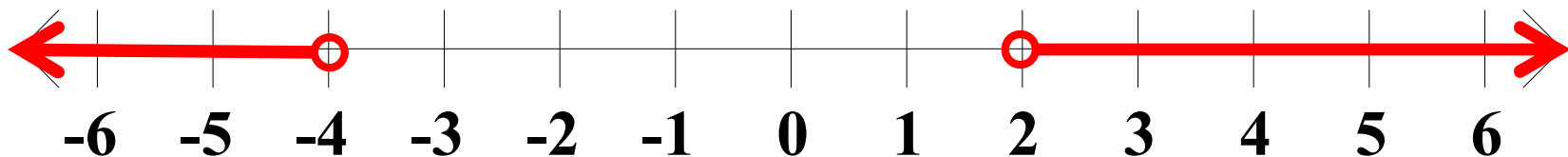
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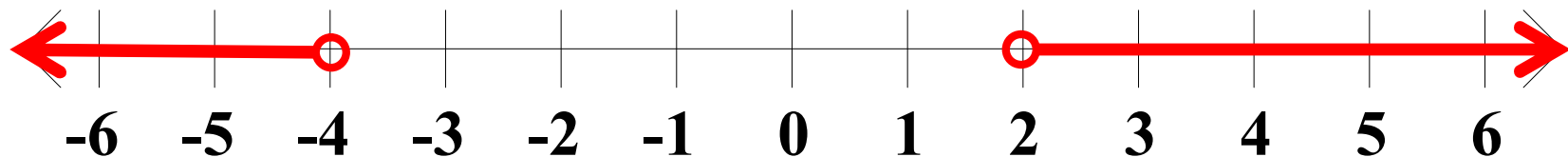
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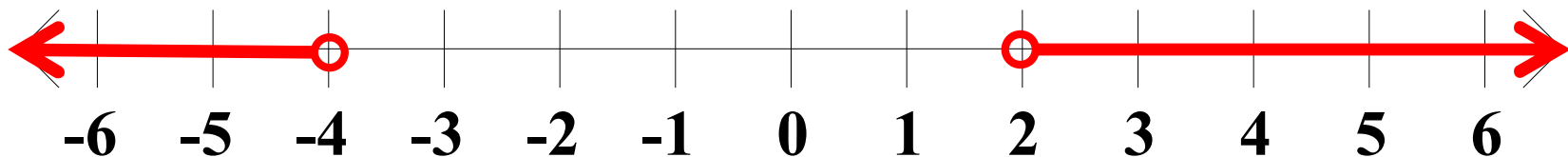
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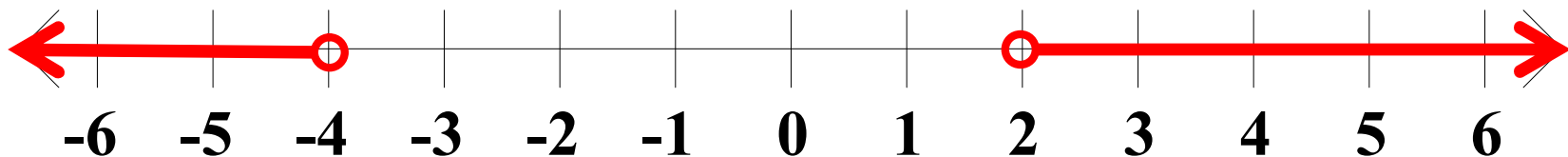
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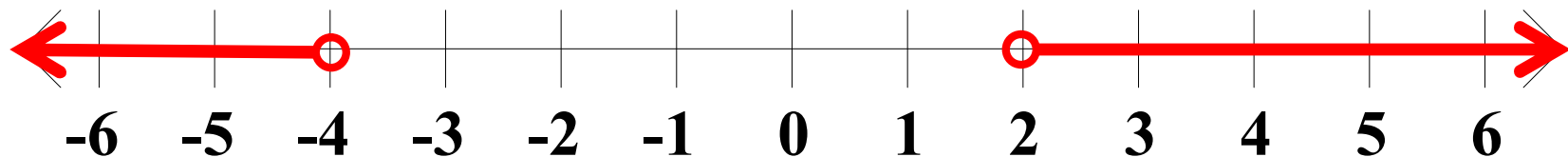
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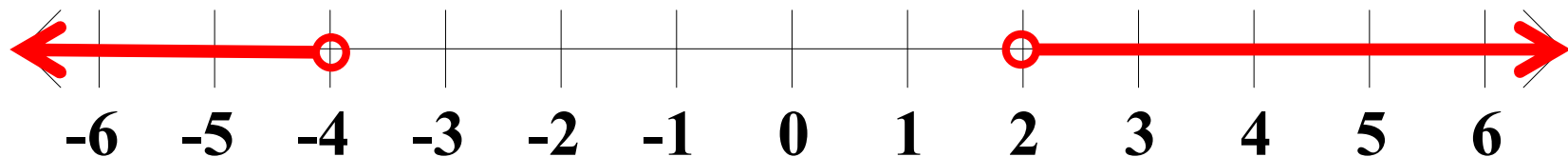
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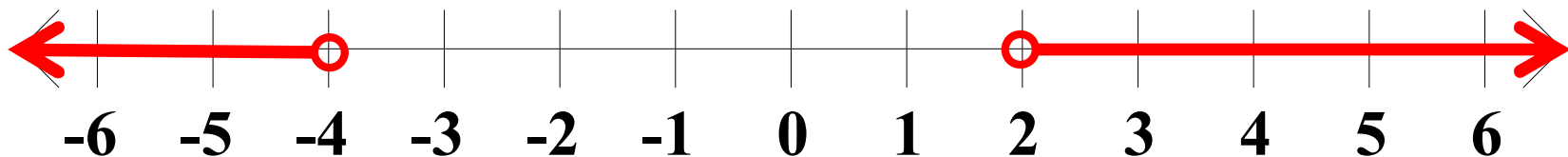
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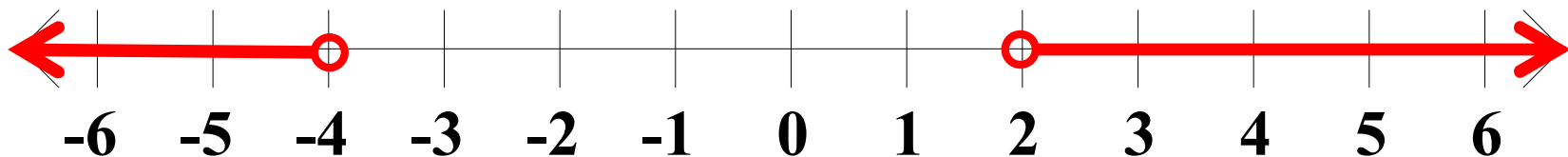
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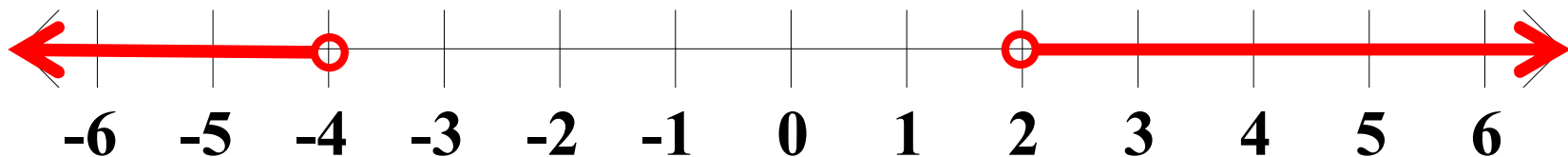
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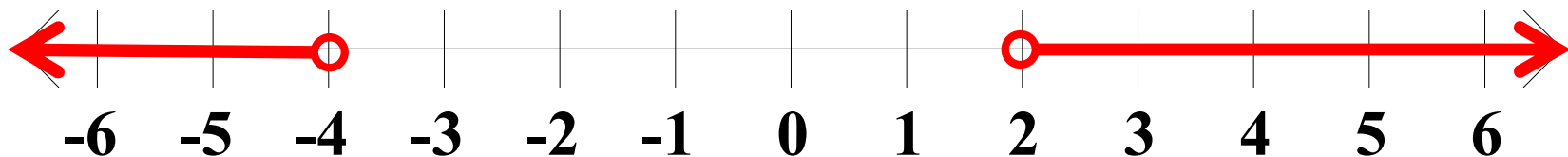
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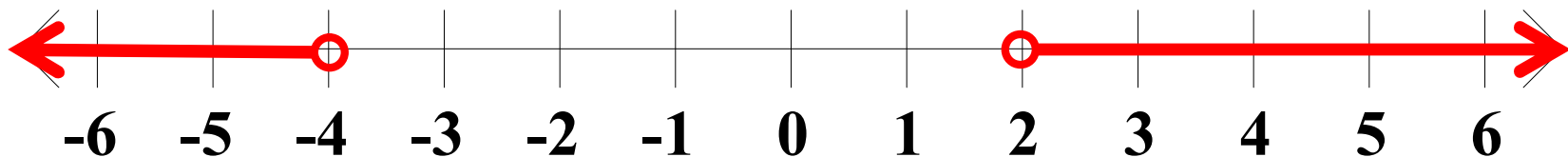
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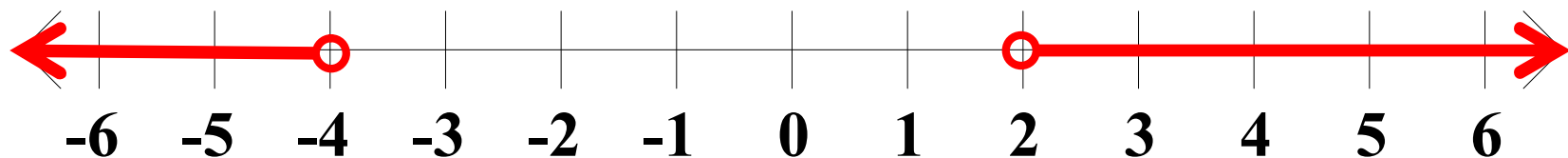
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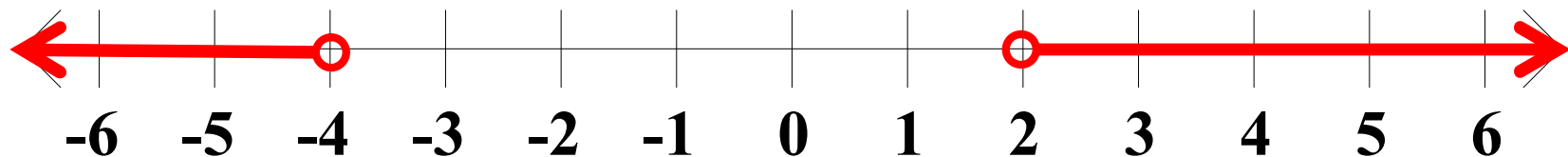
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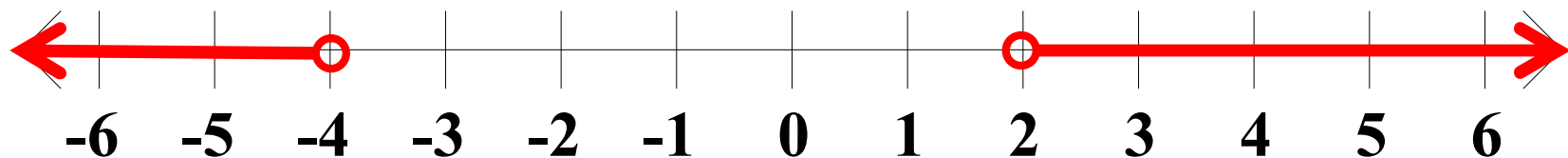
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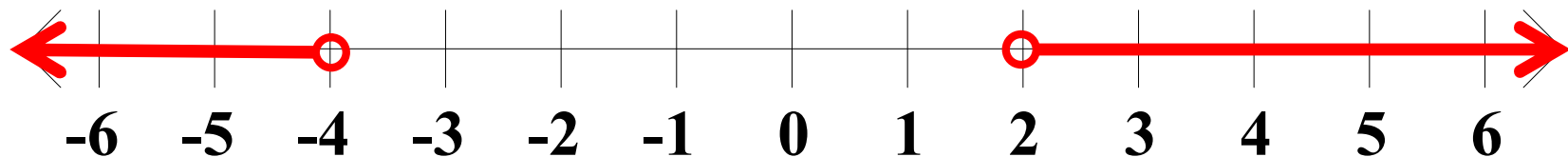
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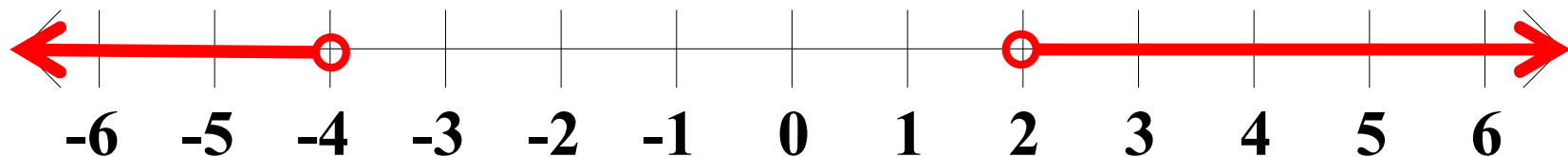
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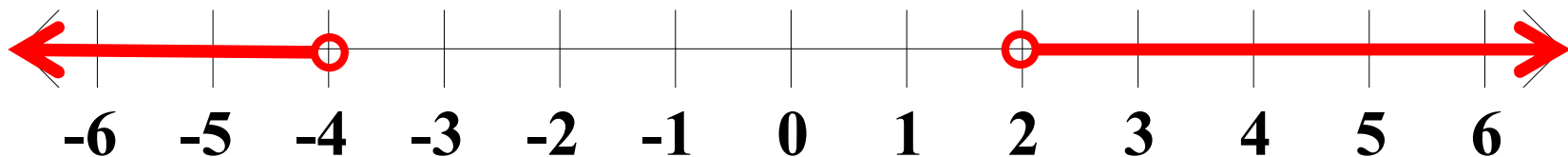
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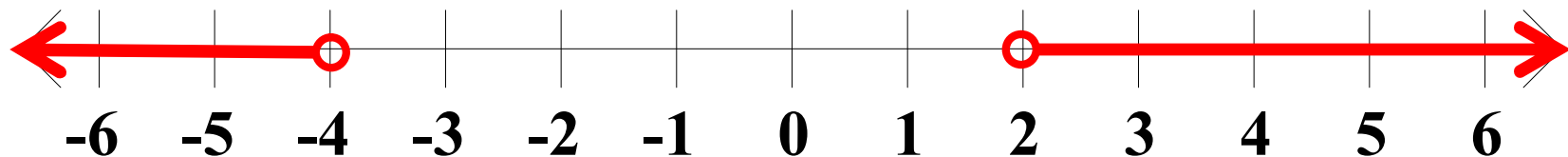
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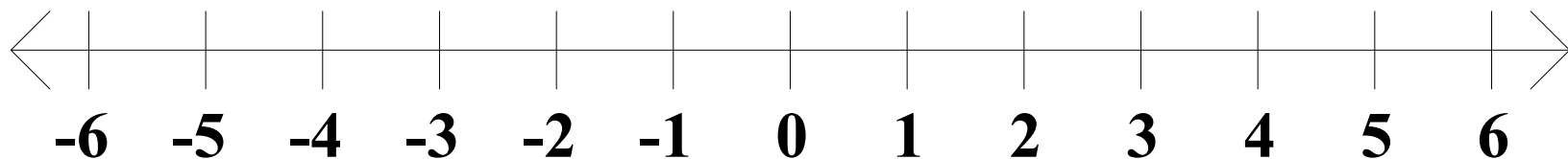
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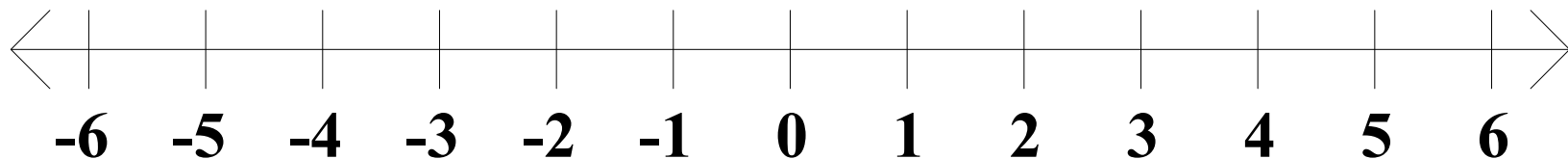
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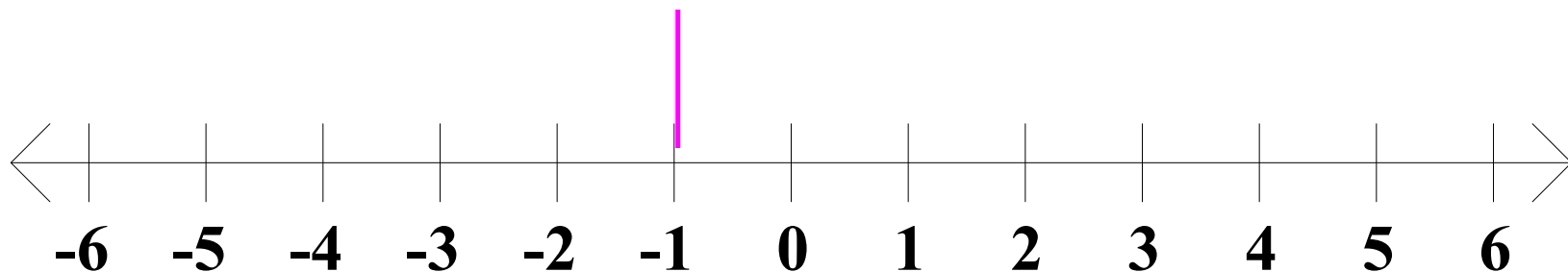
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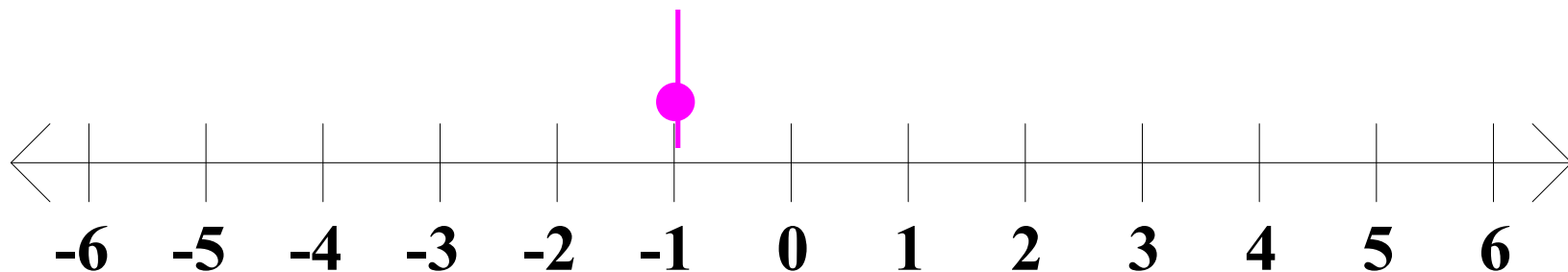
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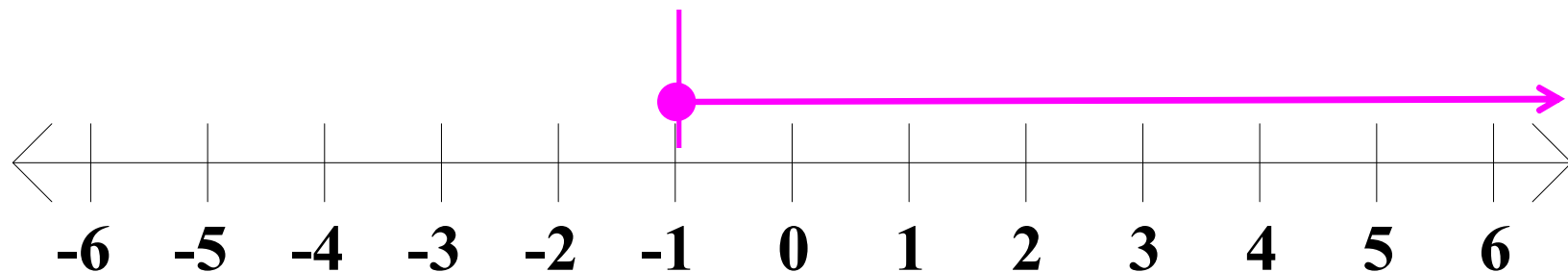
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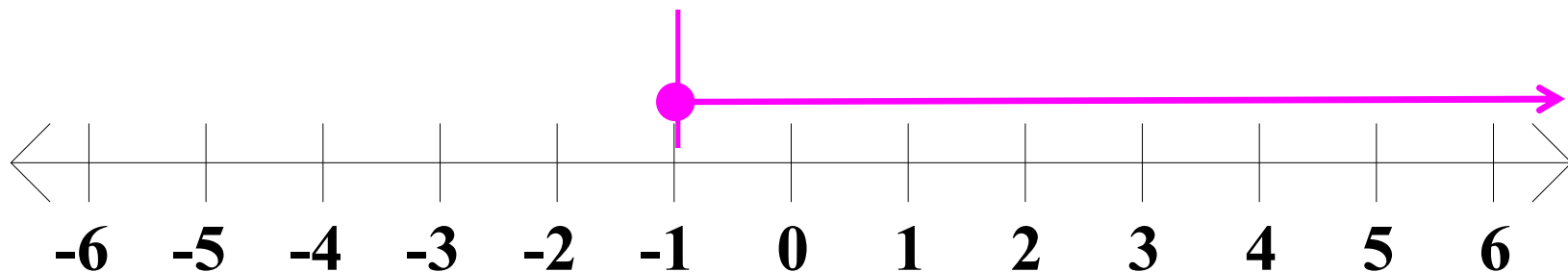
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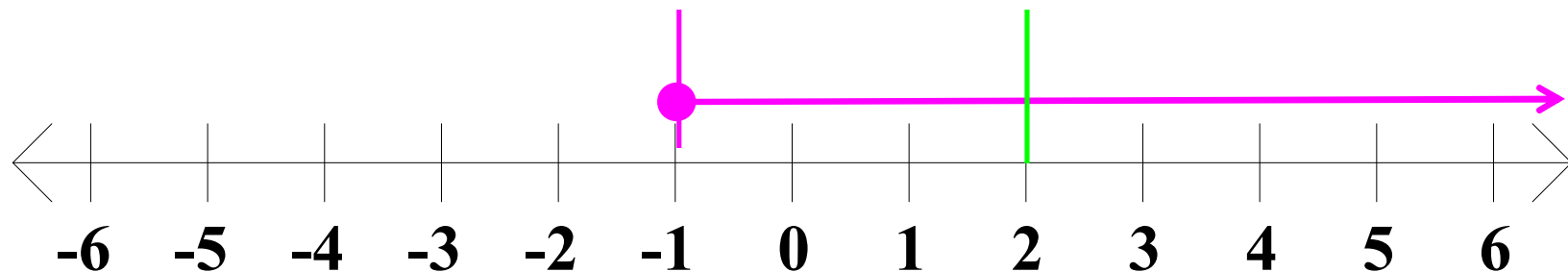
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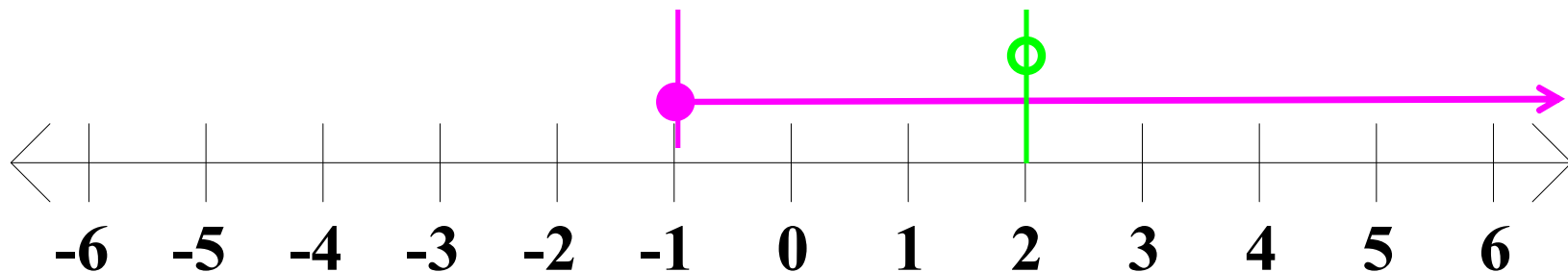
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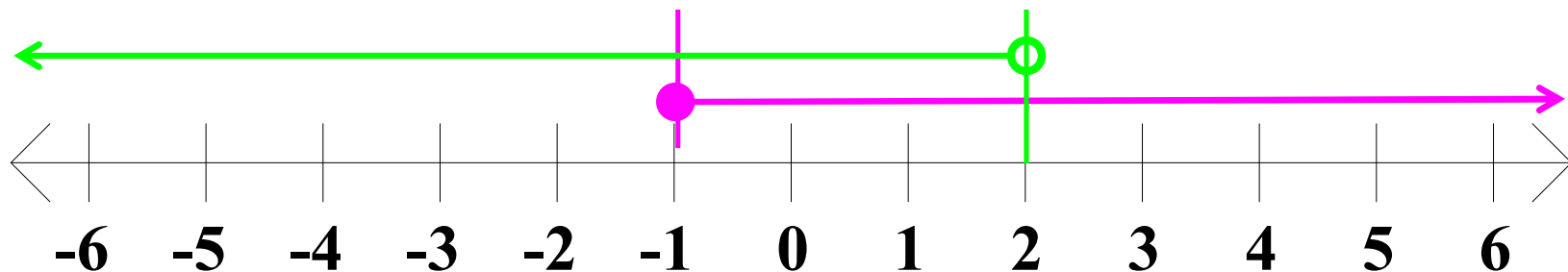
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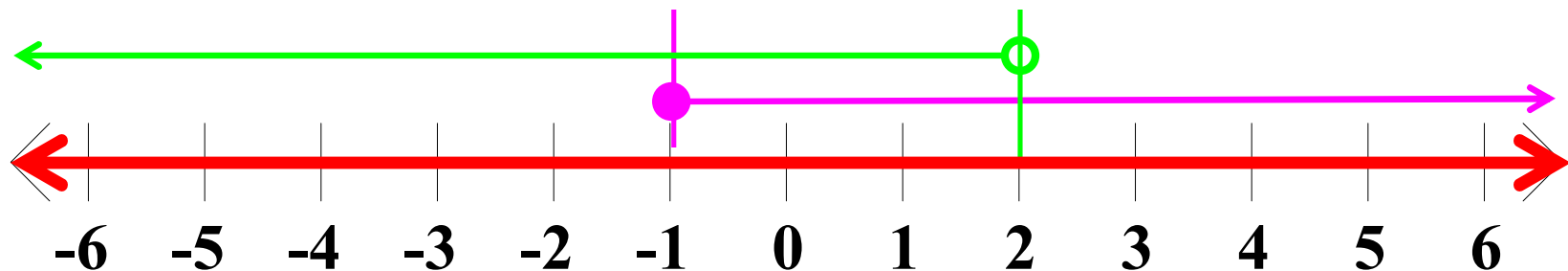
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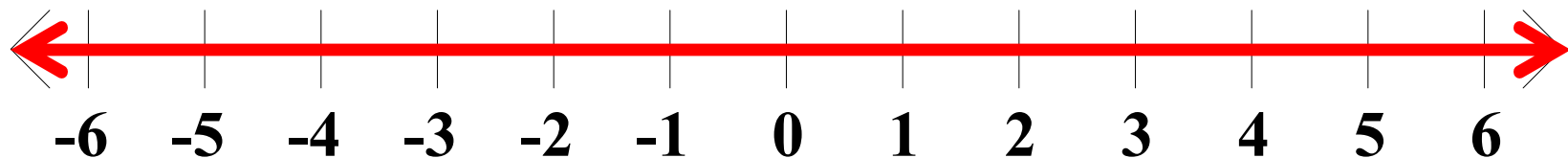
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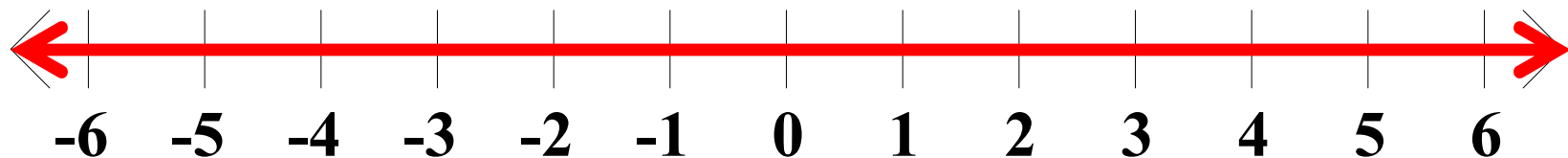
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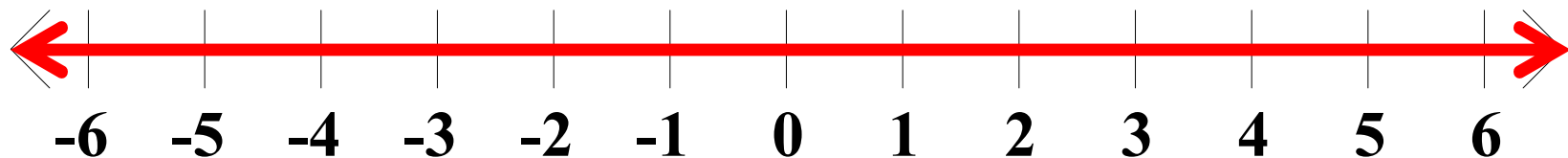
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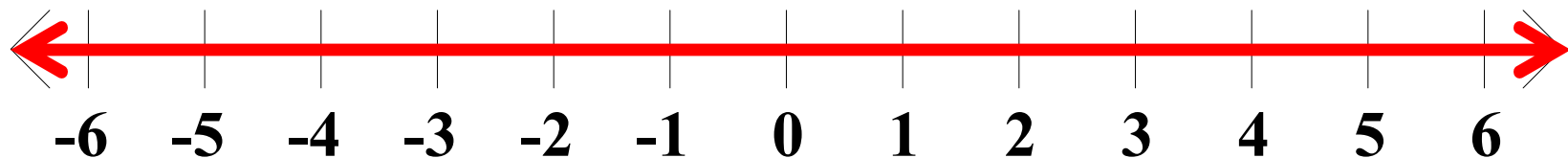
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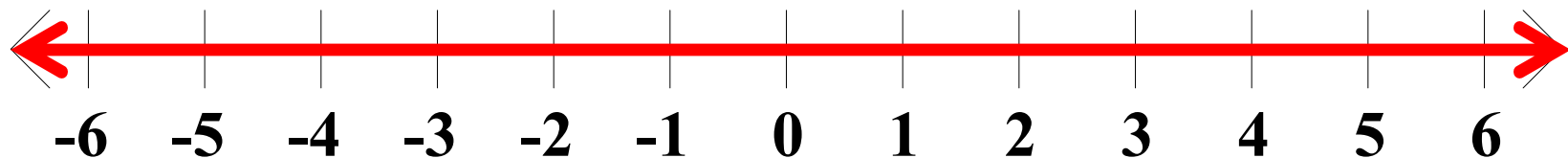
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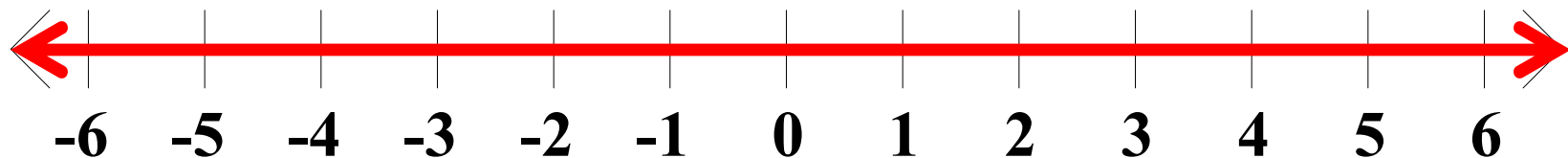
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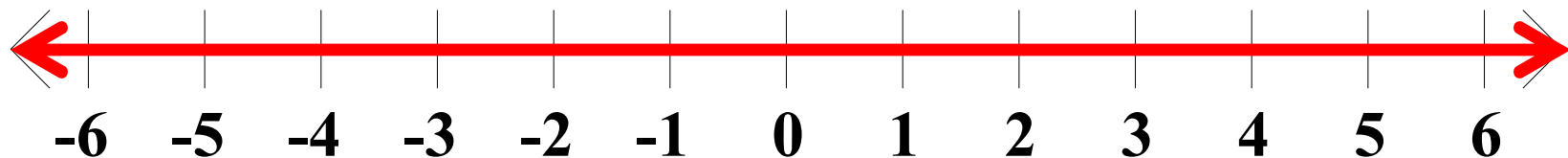
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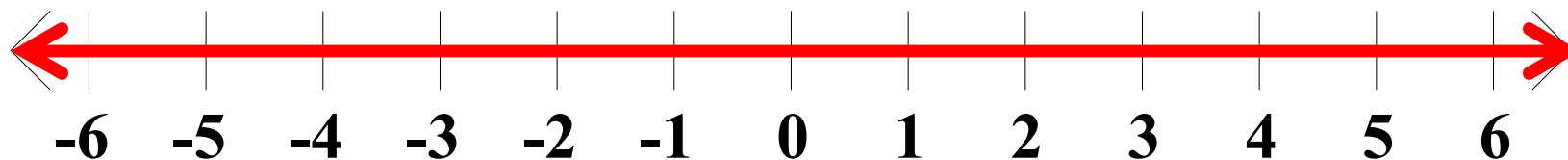
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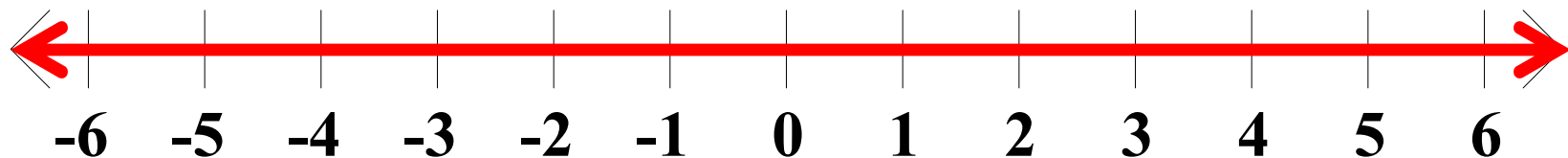
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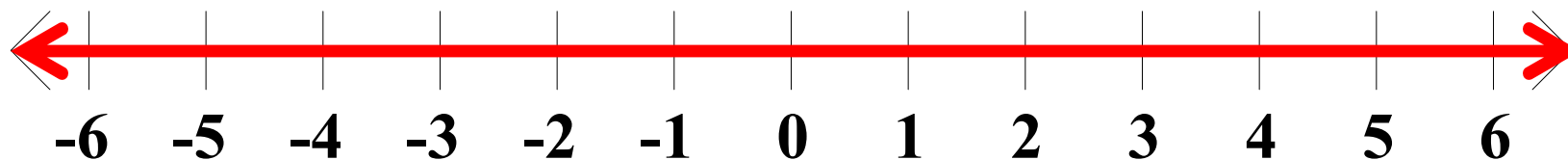
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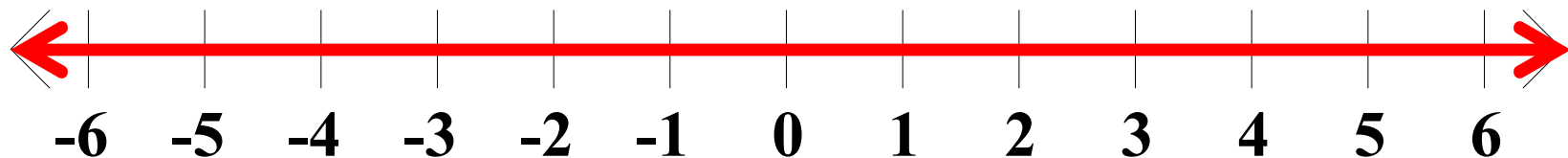
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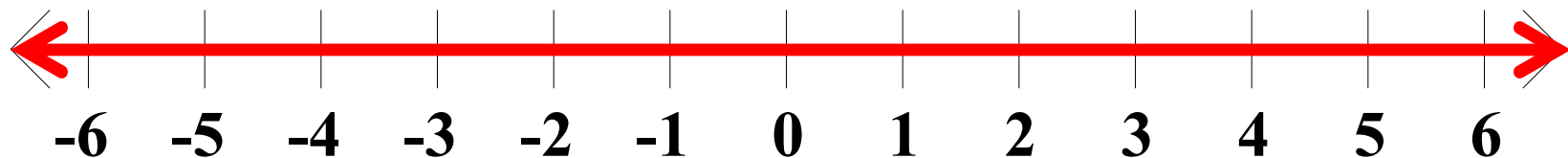
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