

Algebra 1 Lesson #2 Unit 5
Class Worksheet #2
For Worksheets #3 & #4

Absolute Value Equations

Absolute Value Equations

Consider the following problems.

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Consider the following problems.

$$|3| = \underline{\quad}$$

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$$|3| = \underline{3}$$

$$|-3| = \underline{\quad}$$

Absolute Value Equations

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$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

Absolute Value Equations

Consider the following problems.

$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

$$|5| = \underline{\quad}$$

Absolute Value Equations

Consider the following problems.

$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

$$|5| = \underline{5}$$

Absolute Value Equations

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$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

$$|5| = \underline{5}$$

$$|-5| = \underline{\quad}$$

Absolute Value Equations

Consider the following problems.

$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

$$|5| = \underline{5}$$

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Absolute Value Equations

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$$|3| = \underline{3}$$

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$$|5| = \underline{5}$$

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Absolute Value Equations

Consider the following problems.

$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

$$|5| = \underline{5}$$

$$|-5| = \underline{5}$$

$$|8| = \underline{\quad}$$

Absolute Value Equations

Consider the following problems.

$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

$$|5| = \underline{5}$$

$$|-5| = \underline{5}$$

$$|8| = \underline{8}$$

Absolute Value Equations

Consider the following problems.

$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

$$|5| = \underline{5}$$

$$|-5| = \underline{5}$$

$$|8| = \underline{8}$$

$$|-8| = \underline{\quad}$$

Absolute Value Equations

Consider the following problems.

$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

$$|5| = \underline{5}$$

$$|-5| = \underline{5}$$

$$|8| = \underline{8}$$

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Absolute Value Equations

Consider the following problems.

$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

$$|5| = \underline{5}$$

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Absolute Value Equations

Consider the following problems.

$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

$$|5| = \underline{5}$$

$$|-5| = \underline{5}$$

$$|8| = \underline{8}$$

$$|-8| = \underline{8}$$

As you know, the absolute value of a real number gives the distance that number is from 0 on the real number line.

Absolute Value Equations

Consider the following problems.

$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

$$|5| = \underline{5}$$

$$|-5| = \underline{5}$$

$$|8| = \underline{8}$$

$$|-8| = \underline{8}$$

As you know, the absolute value of a real number gives the distance that number is from 0 on the real number line.

3 and -3 are both 3 units from 0.

Absolute Value Equations

Consider the following problems.

$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

$$|5| = \underline{5}$$

$$|-5| = \underline{5}$$

$$|8| = \underline{8}$$

$$|-8| = \underline{8}$$

As you know, the absolute value of a real number gives the distance that number is from 0 on the real number line.

3 and -3 are both 3 units from 0.

5 and -5 are both 5 units from 0.

Absolute Value Equations

Consider the following problems.

$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

$$|5| = \underline{5}$$

$$|-5| = \underline{5}$$

$$|8| = \underline{8}$$

$$|-8| = \underline{8}$$

As you know, the absolute value of a real number gives the distance that number is from 0 on the real number line.

3 and -3 are both 3 units from 0.

5 and -5 are both 5 units from 0.

8 and -8 are both 8 units from 0.

Absolute Value Equations

Consider the following problems.

$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

$$|5| = \underline{5}$$

$$|-5| = \underline{5}$$

$$|8| = \underline{8}$$

$$|-8| = \underline{8}$$

As you know, the absolute value of a real number gives the distance that number is from 0 on the real number line.

Absolute Value Equations

Consider the following problems.

$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

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$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

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$$|-5| = \underline{5}$$

$$|8| = \underline{8}$$

$$|-8| = \underline{8}$$

As you know, the absolute value of a real number gives the distance that number is from 0 on the real number line.

Consider the following equations.

$$|x| = 3$$

Absolute Value Equations

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$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

$$|5| = \underline{5}$$

$$|-5| = \underline{5}$$

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$$|-8| = \underline{8}$$

As you know, the absolute value of a real number gives the distance that number is from 0 on the real number line.

Consider the following equations.

$$|x| = 3$$

$$|x| = 5$$

Absolute Value Equations

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$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

$$|5| = \underline{5}$$

$$|-5| = \underline{5}$$

$$|8| = \underline{8}$$

$$|-8| = \underline{8}$$

As you know, the absolute value of a real number gives the distance that number is from 0 on the real number line.

Consider the following equations.

$$|x| = 3$$

$$|x| = 5$$

$$|x| = 8$$

Absolute Value Equations

Consider the following problems.

$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

$$|5| = \underline{5}$$

$$|-5| = \underline{5}$$

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As you know, the absolute value of a real number gives the distance that number is from 0 on the real number line.

Consider the following equations.

$$|x| = 3$$

$$|x| = 5$$

$$|x| = 8$$

Clearly, each of these equations has 2 solutions.

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Consider the following problems.

$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

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As you know, the absolute value of a real number gives the distance that number is from 0 on the real number line.

Consider the following equations.

$$|x| = 3$$

$x =$

$$|x| = 5$$

$$|x| = 8$$

Clearly, each of these equations has 2 solutions.

Absolute Value Equations

Consider the following problems.

$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

$$|5| = \underline{5}$$

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$$|-8| = \underline{8}$$

As you know, the absolute value of a real number gives the distance that number is from 0 on the real number line.

Consider the following equations.

$$|x| = 3$$

$$x = 3$$

$$|x| = 5$$

$$|x| = 8$$

Clearly, each of these equations has 2 solutions.

Absolute Value Equations

Consider the following problems.

$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

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$$|-8| = \underline{8}$$

As you know, the absolute value of a real number gives the distance that number is from 0 on the real number line.

Consider the following equations.

$$|x| = 3$$

$$x = 3 \text{ or}$$

$$|x| = 5$$

$$|x| = 8$$

Clearly, each of these equations has 2 solutions.

Absolute Value Equations

Consider the following problems.

$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

$$|5| = \underline{5}$$

$$|-5| = \underline{5}$$

$$|8| = \underline{8}$$

$$|-8| = \underline{8}$$

As you know, the absolute value of a real number gives the distance that number is from 0 on the real number line.

Consider the following equations.

$$|x| = 3$$

$$x = 3 \text{ or } x =$$

$$|x| = 5$$

$$|x| = 8$$

Clearly, each of these equations has 2 solutions.

Absolute Value Equations

Consider the following problems.

$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

$$|5| = \underline{5}$$

$$|-5| = \underline{5}$$

$$|8| = \underline{8}$$

$$|-8| = \underline{8}$$

As you know, the absolute value of a real number gives the distance that number is from 0 on the real number line.

Consider the following equations.

$$|x| = 3$$

$$x = 3 \text{ or } x = -3$$

$$|x| = 5$$

$$|x| = 8$$

Clearly, each of these equations has 2 solutions.

Absolute Value Equations

Consider the following problems.

$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

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As you know, the absolute value of a real number gives the distance that number is from 0 on the real number line.

Consider the following equations.

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$$x = 3 \text{ or } x = -3$$

$$|x| = 5$$

$$|x| = 8$$

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Consider the following problems.

$$|3| = \underline{3}$$

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As you know, the absolute value of a real number gives the distance that number is from 0 on the real number line.

Consider the following equations.

$$|x| = 3$$

$$x = 3 \text{ or } x = -3$$

$$|x| = 5$$

$$x =$$

$$|x| = 8$$

Clearly, each of these equations has 2 solutions.

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Consider the following problems.

$$|3| = \underline{3}$$

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Consider the following equations.

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$$x = 3 \text{ or } x = -3$$

$$|x| = 5$$

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$$|x| = 8$$

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Consider the following equations.

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Consider the following equations.

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$$x = 5 \text{ or } x =$$

$$|x| = 8$$

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Consider the following equations.

$$|x| = 3$$

$$x = 3 \text{ or } x = -3$$

$$|x| = 5$$

$$x = 5 \text{ or } x = -5$$

$$|x| = 8$$

Clearly, each of these equations has 2 solutions.

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Consider the following problems.

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Consider the following equations.

$$|x| = 3$$

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$$x = 5 \text{ or } x = -5$$

$$|x| = 8$$

$$x =$$

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$$|x| = 3$$

$$x = 3 \text{ or } x = -3$$

$$|x| = 5$$

$$x = 5 \text{ or } x = -5$$

$$|x| = 8$$

$$x = 8$$

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Consider the following problems.

$$|3| = \underline{3}$$

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As you know, the absolute value of a real number gives the distance that number is from 0 on the real number line.

Consider the following equations.

$$|x| = 3$$

$$x = 3 \text{ or } x = -3$$

$$|x| = 5$$

$$x = 5 \text{ or } x = -5$$

$$|x| = 8$$

$$x = 8 \text{ or }$$

Clearly, each of these equations has 2 solutions.

Absolute Value Equations

Consider the following problems.

$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

$$|5| = \underline{5}$$

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As you know, the absolute value of a real number gives the distance that number is from 0 on the real number line.

Consider the following equations.

$$|x| = 3$$

$$x = 3 \text{ or } x = -3$$

$$|x| = 5$$

$$x = 5 \text{ or } x = -5$$

$$|x| = 8$$

$$x = 8 \text{ or } x =$$

Clearly, each of these equations has 2 solutions.

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Consider the following problems.

$$|3| = \underline{3}$$

$$|-3| = \underline{3}$$

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$$|-5| = \underline{5}$$

$$|8| = \underline{8}$$

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As you know, the absolute value of a real number gives the distance that number is from 0 on the real number line.

Consider the following equations.

$$|x| = 3$$

$$x = 3 \text{ or } x = -3$$

$$|x| = 5$$

$$x = 5 \text{ or } x = -5$$

$$|x| = 8$$

$$x = 8 \text{ or } x = -8$$

Clearly, each of these equations has 2 solutions.

Absolute Value Equations

$$|x| = 3$$

$$x = 3 \text{ or } x = -3$$

$$|x| = 5$$

$$x = 5 \text{ or } x = -5$$

$$|x| = 8$$

$$x = 8 \text{ or } x = -8$$

Absolute Value Equations

$$|x| = 3$$

$$x = 3 \text{ or } x = -3$$

$$|x| = 5$$

$$x = 5 \text{ or } x = -5$$

$$|x| = 8$$

$$x = 8 \text{ or } x = -8$$

Here is the rule that is used to solve equations similar to these.

Absolute Value Equations

$$|x| = 3$$

$$x = 3 \text{ or } x = -3$$

$$|x| = 5$$

$$x = 5 \text{ or } x = -5$$

$$|x| = 8$$

$$x = 8 \text{ or } x = -8$$

Here is the rule that is used to solve equations similar to these.

$$\text{If } |N| = k$$

Absolute Value Equations

$$|x| = 3$$

$$x = 3 \text{ or } x = -3$$

$$|x| = 5$$

$$x = 5 \text{ or } x = -5$$

$$|x| = 8$$

$$x = 8 \text{ or } x = -8$$

Here is the rule that is used to solve equations similar to these.

If $|N| = k$ and $k > 0$,

Absolute Value Equations

$$|x| = 3$$

$$x = 3 \text{ or } x = -3$$

$$|x| = 5$$

$$x = 5 \text{ or } x = -5$$

$$|x| = 8$$

$$x = 8 \text{ or } x = -8$$

Here is the rule that is used to solve equations similar to these.

If $|N| = k$ and $k > 0$, then $N = k$

Absolute Value Equations

$$|x| = 3$$

$$x = 3 \text{ or } x = -3$$

$$|x| = 5$$

$$x = 5 \text{ or } x = -5$$

$$|x| = 8$$

$$x = 8 \text{ or } x = -8$$

Here is the rule that is used to solve equations similar to these.

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Absolute Value Equations

$$|x| = 3$$

$$x = 3 \text{ or } x = -3$$

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$$x = 5 \text{ or } x = -5$$

$$|x| = 8$$

$$x = 8 \text{ or } x = -8$$

Here is the rule that is used to solve equations similar to these.

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.

Absolute Value Equations

$$|x| = 3$$

$$x = 3 \text{ or } x = -3$$

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Here is the rule that is used to solve equations similar to these.

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.

Algebra I Class Worksheet #2 Unit 5

Solve each of the following equations. Show your steps neatly organized.

1. $|x| = 5$

2. $|x + 1| = 5$

3. $|3x - 2| = 5$

Solving Absolute Value Equations

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.

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Solve each of the following equations. Show your steps neatly organized.

1. $|x| = 5$

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If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.

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1. $|x| = 5$

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Step 1: Apply the rule to write 2 equations.

Solving Absolute Value Equations

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.

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$x = 5$

2. $|x + 1| = 5$

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Step 1: Apply the rule to write 2 equations.

Solving Absolute Value Equations

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.



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1. $|x| = 5$

$x = 5$ or

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3. $|3x - 2| = 5$

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If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.



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$x = 5$ or $x =$

2. $|x + 1| = 5$

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1. $|x| = 5$

$x = 5$ or $x = -5$

2. $|x + 1| = 5$

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Step 1: Apply the rule to write 2 equations.

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$x = 5$ or $x = -5$

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3. $|3x - 2| = 5$

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$x = \frac{7}{3}$

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$x + 1 = 5$ or $x + 1 = -5$

$x = 4$ or $x = -6$

3. $|3x - 2| = 5$

$3x - 2 = 5$ or $3x - 2 = -5$

$3x = 7$

$3x = -3$

$x = \frac{7}{3}$ or $x = -1$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.

Algebra I Class Worksheet #2 Unit 5

Solve each of the following equations. Show your steps neatly organized.

4. $|x| = 7$

5. $|x - 3| = 7$

6. $|5x + 4| = 7$

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$x - 3 = 7$ or $x - 3 = -7$

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$5x + 4 = 7$ or

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$5x + 4 = 7$ or $5x + 4 = -7$

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$x = 10$ or $x = -4$

6. $|5x + 4| = 7$

$5x + 4 = 7$ or $5x + 4 = -7$

$5x = 3$

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6. $|5x + 4| = 7$

$5x + 4 = 7$ or $5x + 4 = -7$

$5x = 3$

$x = \frac{3}{5}$

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$x = 10$ or $x = -4$

6. $|5x + 4| = 7$

$5x + 4 = 7$ or $5x + 4 = -7$

$5x = 3$

$5x = -11$

$x = \frac{3}{5}$

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$x = 10$ or $x = -4$

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$5x + 4 = 7$ or $5x + 4 = -7$

$5x = 3$

$5x = -11$

$x = \frac{3}{5}$

$x = -\frac{11}{5}$

Step 1: Apply the rule to write 2 equations.

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$5x + 4 = 7$ or $5x + 4 = -7$

$5x = 3$

$5x = -11$

$x = \frac{3}{5}$ or $x = -\frac{11}{5}$

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$5x = 3$

$5x = -11$

$x = \frac{3}{5}$ or $x = -\frac{11}{5}$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.

Algebra I Class Worksheet #2 Unit 5

Solve each of the following equations. Show your steps neatly organized.

4. $|x| = 7$

$x = 7$ or $x = -7$

5. $|x - 3| = 7$

$x - 3 = 7$ or $x - 3 = -7$

$x = 10$ or $x = -4$

6. $|5x + 4| = 7$

$5x + 4 = 7$ or $5x + 4 = -7$

$5x = 3$

$5x = -11$

$x = \frac{3}{5}$ or $x = -\frac{11}{5}$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.

Algebra I Class Worksheet #2 Unit 5

Solve each of the following equations. Show your steps neatly organized.

7. $|3x - 4| = 5$

8. $|2x + 1| = 3$

9. $|4x - 3| = 1$

Step 1: Apply the rule to write 2 equations.

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9. $|4x - 3| = 1$

$3x - 4 =$

Step 1: Apply the rule to write 2 equations.

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Algebra I Class Worksheet #2 Unit 5

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$$7. \quad |3x - 4| = 5$$

$$3x - 4 = 5$$

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Step 1: Apply the rule to write 2 equations.

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$$7. \quad |3x - 4| = 5$$

$$8. \quad |2x + 1| = 3$$

$$9. \quad |4x - 3| = 1$$

$$3x - 4 = 5 \text{ or}$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.



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8. $|2x + 1| = 3$

9. $|4x - 3| = 1$

$3x - 4 = 5$ or $3x - 4 =$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.



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$$8. \quad |2x + 1| = 3$$

$$9. \quad |4x - 3| = 1$$

$$3x - 4 = 5 \text{ or } 3x - 4 = -5$$

Step 1: Apply the rule to write 2 equations.

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Solving Absolute Value Equations

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$$7. \quad |3x - 4| = 5$$

$$8. \quad |2x + 1| = 3$$

$$9. \quad |4x - 3| = 1$$

$$3x - 4 = 5 \text{ or } 3x - 4 = -5$$

$$3x =$$

Step 1: Apply the rule to write 2 equations.

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$$7. \quad |3x - 4| = 5$$

$$8. \quad |2x + 1| = 3$$

$$9. \quad |4x - 3| = 1$$

$$3x - 4 = 5 \quad \text{or} \quad 3x - 4 = -5$$

$$3x = 9$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.

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$$3x - 4 = 5 \quad \text{or} \quad 3x - 4 = -5$$

$$3x = 9 \qquad 3x =$$

$$x = 3$$

$$8. \quad |2x + 1| = 3$$

$$9. \quad |4x - 3| = 1$$

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$$3x = 9$$

$$3x = -1$$

$$x = 3$$

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$$3x - 4 = 5 \quad \text{or} \quad 3x - 4 = -5$$

$$3x = 9$$

$$3x = -1$$

$$x = 3$$

$$x = -\frac{1}{3}$$

Step 1: Apply the rule to write 2 equations.

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$$2x + 1 = 3 \text{ or } 2x + 1 = -3$$

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$3x = -1$

$x = 3$ or $x = -\frac{1}{3}$

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$$3x = 9$$

$$3x = -1$$

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$3x - 4 = 5$ or $3x - 4 = -5$

$3x = 9$

$3x = -1$

$x = 3$ or $x = \frac{-1}{3}$

8. $|2x + 1| = 3$

$2x + 1 = 3$ or $2x + 1 = -3$

$2x =$

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$$3x = 9$$

$$3x = -1$$

$$x = 3 \text{ or } x = -\frac{1}{3}$$

8. $|2x + 1| = 3$

$$2x + 1 = 3 \text{ or } 2x + 1 = -3$$

$$2x = 2$$

9. $|4x - 3| = 1$

Step 1: Apply the rule to write 2 equations.

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$2x + 1 = 3$ or $2x + 1 = -3$

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$$x = 3 \text{ or } x = -\frac{1}{3}$$

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$$2x = 2$$

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$$x = 1$$

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Step 1: Apply the rule to write 2 equations.

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Solving Absolute Value Equations

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.

Algebra I Class Worksheet #2 Unit 5

Solve each of the following equations. Show your steps neatly organized.

7. $|3x - 4| = 5$

$$3x - 4 = 5 \text{ or } 3x - 4 = -5$$

$$3x = 9$$

$$3x = -1$$

$$x = 3 \text{ or } x = -\frac{1}{3}$$

8. $|2x + 1| = 3$

$$2x + 1 = 3 \text{ or } 2x + 1 = -3$$

$$2x = 2$$

$$2x = -4$$

$$x = 1 \text{ or } x = -2$$

9. $|4x - 3| = 1$

Step 1: Apply the rule to write 2 equations.

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Solving Absolute Value Equations

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.

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Solve each of the following equations. Show your steps neatly organized.

7. $|3x - 4| = 5$

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$$3x = -1$$

$$x = 3 \text{ or } x = -\frac{1}{3}$$

8. $|2x + 1| = 3$

$$2x + 1 = 3 \text{ or } 2x + 1 = -3$$

$$2x = 2$$

$$2x = -4$$

$$x = 1 \text{ or } x = -2$$

9. $|4x - 3| = 1$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.

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Solve each of the following equations. Show your steps neatly organized.

7. $|3x - 4| = 5$

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9. $|4x - 3| = 1$

$3x - 4 = 5$ or $3x - 4 = -5$ $2x + 1 = 3$ or $2x + 1 = -3$

$3x = 9$

$3x = -1$

$2x = 2$

$2x = -4$

$x = 3$ or $x = -\frac{1}{3}$

$x = 1$ or $x = -2$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.

Algebra I Class Worksheet #2 Unit 5

Solve each of the following equations. Show your steps neatly organized.

7. $|3x - 4| = 5$

8. $|2x + 1| = 3$

9. $|4x - 3| = 1$

$3x - 4 = 5$ or $3x - 4 = -5$ $2x + 1 = 3$ or $2x + 1 = -3$

$3x = 9$

$3x = -1$

$2x = 2$

$2x = -4$

$x = 3$ or $x = \frac{-1}{3}$

$x = 1$ or $x = -2$

Step 1: Apply the rule to write 2 equations.

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Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.

Algebra I Class Worksheet #2 Unit 5

Solve each of the following equations. Show your steps neatly organized.

$$10. \quad |5x + 2| = 3$$

$$11. \quad |6x - 3| = 15$$

$$12. \quad |3x + 7| = 4$$

$$5x + 2 = 3 \quad \text{or} \quad 5x + 2 = -3$$

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Step 2: Solve each equation.

Solving Absolute Value Equations

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.

Algebra I Class Worksheet #2 Unit 5

Solve each of the following equations. Show your steps neatly organized.

10. $|5x + 2| = 3$

11. $|6x - 3| = 15$

12. $|3x + 7| = 4$

$5x + 2 = 3$ or $5x + 2 = -3$ $6x - 3 = 15$ or $6x - 3 = -15$ $3x + 7 = 4$ or $3x + 7 = -4$

$5x = 1$

$5x = -5$

$6x = 18$

$6x = -12$

$3x = -3$

$x = \frac{1}{5}$ or $x = -1$

$x = 3$ or $x = -2$

$x =$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.

Algebra I Class Worksheet #2 Unit 5

Solve each of the following equations. Show your steps neatly organized.

10. $|5x + 2| = 3$

11. $|6x - 3| = 15$

12. $|3x + 7| = 4$

$5x + 2 = 3$ or $5x + 2 = -3$ $6x - 3 = 15$ or $6x - 3 = -15$ $3x + 7 = 4$ or $3x + 7 = -4$

$5x = 1$

$5x = -5$

$6x = 18$

$6x = -12$

$3x = -3$

$x = \frac{1}{5}$ or $x = -1$

$x = 3$ or $x = -2$

$x = -1$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.

Algebra I Class Worksheet #2 Unit 5

Solve each of the following equations. Show your steps neatly organized.

10. $|5x + 2| = 3$

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$5x + 2 = 3$ or $5x + 2 = -3$ $6x - 3 = 15$ or $6x - 3 = -15$ $3x + 7 = 4$ or $3x + 7 = -4$

$5x = 1$

$5x = -5$

$6x = 18$

$6x = -12$

$3x = -3$

$3x =$

$x = \frac{1}{5}$ or $x = -1$

$x = 3$ or $x = -2$

$x = -1$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.

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Solve each of the following equations. Show your steps neatly organized.

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$5x + 2 = 3$ or $5x + 2 = -3$ $6x - 3 = 15$ or $6x - 3 = -15$ $3x + 7 = 4$ or $3x + 7 = -4$

$5x = 1$

$5x = -5$

$6x = 18$

$6x = -12$

$3x = -3$

$3x = -11$

$x = \frac{1}{5}$ or $x = -1$

$x = 3$ or $x = -2$

$x = -1$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.

Algebra I Class Worksheet #2 Unit 5

Solve each of the following equations. Show your steps neatly organized.

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$5x = 1$

$5x = -5$

$6x = 18$

$6x = -12$

$3x = -3$

$3x = -11$

$x = \frac{1}{5}$ or $x = -1$

$x = 3$ or $x = -2$

$x = -1$

$x =$

Step 1: Apply the rule to write 2 equations.

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Solving Absolute Value Equations

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.

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$5x = 1$

$5x = -5$

$6x = 18$

$6x = -12$

$3x = -3$

$3x = -11$

$x = \frac{1}{5}$ or $x = -1$

$x = 3$ or $x = -2$

$x = -1$

$x = -\frac{11}{3}$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.

Algebra I Class Worksheet #2 Unit 5

Solve each of the following equations. Show your steps neatly organized.

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$6x = -12$

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$3x = -11$

$x = \frac{1}{5}$ or $x = -1$

$x = 3$ or $x = -2$

$x = -1$ or $x = -\frac{11}{3}$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.

Algebra I Class Worksheet #2 Unit 5

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$5x = 1$

$5x = -5$

$6x = 18$

$6x = -12$

$3x = -3$

$3x = -11$

$x = \frac{1}{5}$ or $x = -1$

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Step 1: Apply the rule to write 2 equations.

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Solving Absolute Value Equations

If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.

Algebra I Class Worksheet #2 Unit 5

Solve each of the following equations. Show your steps neatly organized.

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$5x = 1$

$5x = -5$

$6x = 18$

$6x = -12$

$3x = -3$

$3x = -11$

$x = \frac{1}{5}$ or $x = -1$

$x = 3$ or $x = -2$

$x = -1$ or $x = -\frac{11}{3}$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

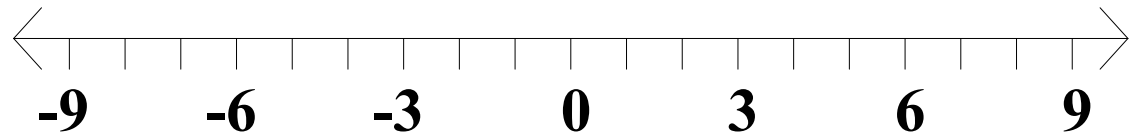
If $|N| = k$ and $k > 0$, then $N = k$ or $N = -k$.

Absolute Value Inequalities

Absolute Value Inequalities

Solve the inequality and graph the solution set.

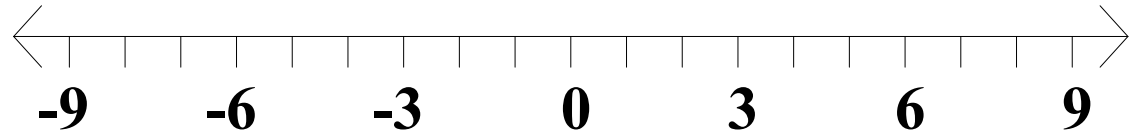
$$|x| < 3$$



Absolute Value Inequalities

Solve the inequality and graph the solution set.

$$|x| < 3$$

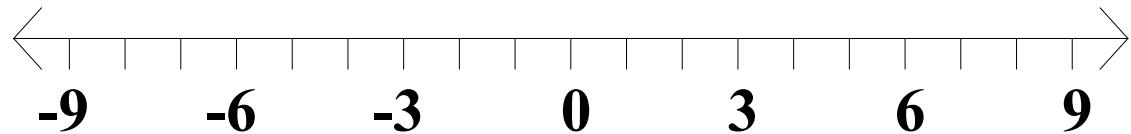


The absolute value of a real number gives the distance that number is from 0 on the real number line.

Absolute Value Inequalities

Solve the inequality and graph the solution set.

$$|x| < 3$$



The absolute value of a real number gives the distance that number is from 0 on the real number line.

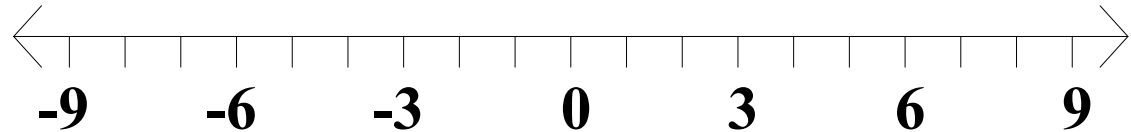
Clearly, any solution must be less than 3 units from 0.

Absolute Value Inequalities

Solve the inequality and graph the solution set.

$$|x| < 3$$

$$x < 3$$



The absolute value of a real number gives the distance that number is from 0 on the real number line.

Clearly, any solution must be less than 3 units from 0.

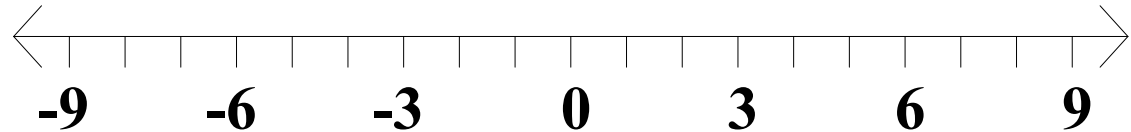
x must be less than 3

Absolute Value Inequalities

Solve the inequality and graph the solution set.

$$|x| < 3$$

$$x < 3 \text{ and}$$



The absolute value of a real number gives the distance that number is from 0 on the real number line.

Clearly, any solution must be less than 3 units from 0.

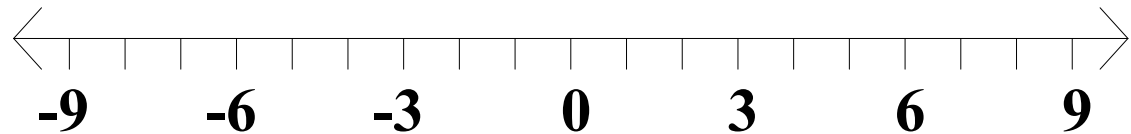
x must be less than 3 and

Absolute Value Inequalities

Solve the inequality and graph the solution set.

$$|x| < 3$$

$$x < 3 \text{ and } x > -3$$



The absolute value of a real number gives the distance that number is from 0 on the real number line.

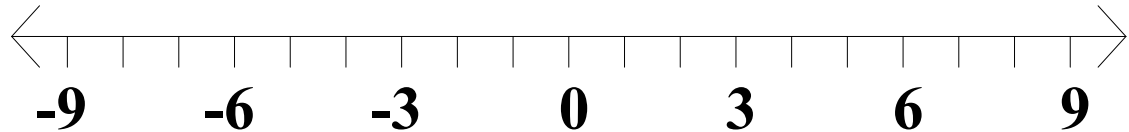
Clearly, any solution must be less than 3 units from 0.

x must be less than 3 and greater than -3.

Absolute Value Inequalities

Solve the inequality and graph the solution set.

$$|x| < 3$$
$$x < 3 \text{ and } x > -3$$



The absolute value of a real number gives the distance that number is from 0 on the real number line.

Clearly, any solution must be less than 3 units from 0.

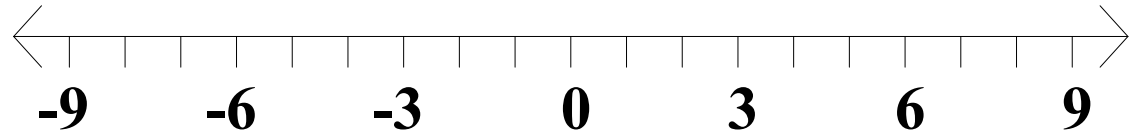
x must be less than 3 and greater than -3.

The solution is represented using a continued inequality.

Absolute Value Inequalities

Solve the inequality and graph the solution set.

$$|x| < 3$$
$$x < 3 \text{ and } x > -3$$



The absolute value of a real number gives the distance that number is from 0 on the real number line.

Clearly, any solution must be less than 3 units from 0.

x must be less than 3 and greater than -3.

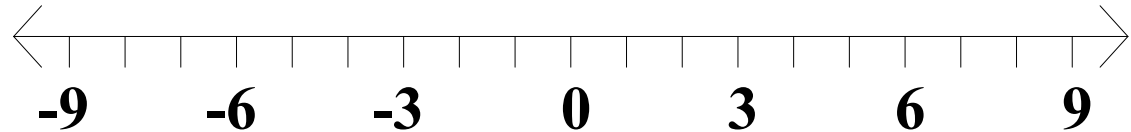
The solution is represented using a continued inequality.

$$-3 < x < 3$$

Absolute Value Inequalities

Solve the inequality and graph the solution set.

$$|x| < 3$$
$$-3 < x < 3$$



The absolute value of a real number gives the distance that number is from 0 on the real number line.

Clearly, any solution must be less than 3 units from 0.

x must be less than 3 and greater than -3.

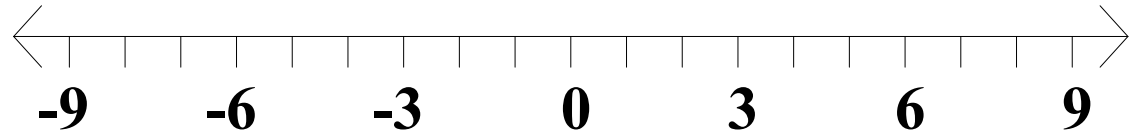
The solution is represented using a continued inequality.

$$-3 < x < 3$$

Absolute Value Inequalities

Solve the inequality and graph the solution set.

$$|x| < 3$$
$$-3 < x < 3$$



The absolute value of a real number gives the distance that number is from 0 on the real number line.

Clearly, any solution must be less than 3 units from 0.

x must be less than 3 and greater than -3.

The solution is represented using a continued inequality.

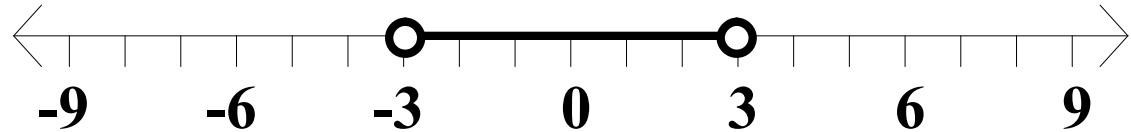
$$-3 < x < 3$$

The graph looks like this.

Absolute Value Inequalities

Solve the inequality and graph the solution set.

$$|x| < 3$$
$$-3 < x < 3$$



The absolute value of a real number gives the distance that number is from 0 on the real number line.

Clearly, any solution must be less than 3 units from 0.

x must be less than 3 and greater than -3.

The solution is represented using a continued inequality.

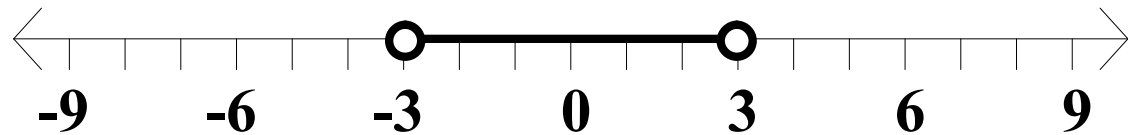
$$-3 < x < 3$$

The graph looks like this.

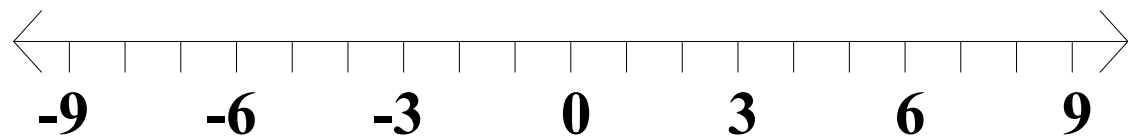
Absolute Value Inequalities

Solve the inequality and graph the solution set.

$$|x| < 3$$
$$-3 < x < 3$$



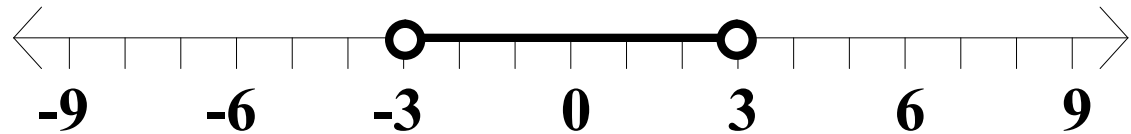
$$|x| < 5$$



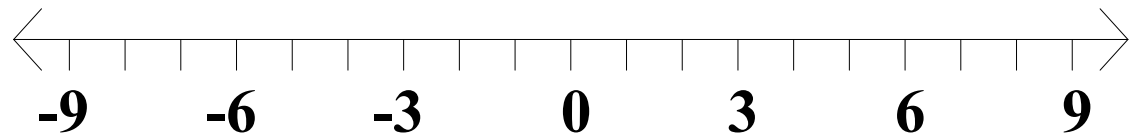
Absolute Value Inequalities

Solve the inequality and graph the solution set.

$$|x| < 3$$
$$-3 < x < 3$$



$$|x| < 5$$

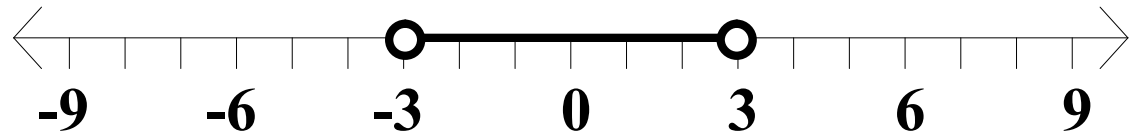


This time, any solution must be less than 5 units from 0.

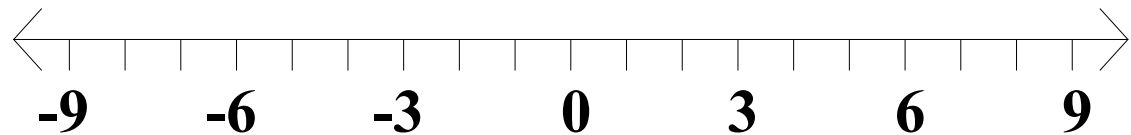
Absolute Value Inequalities

Solve the inequality and graph the solution set.

$$|x| < 3$$
$$-3 < x < 3$$



$$|x| < 5$$

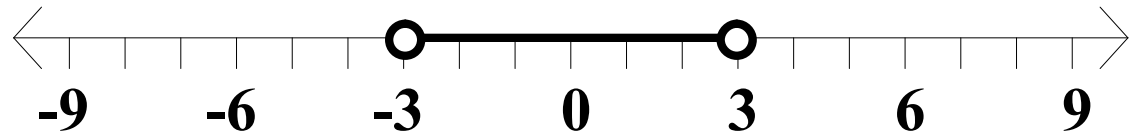


**This time, any solution must be less than 5 units from 0.
Once again, a continued inequality is used.**

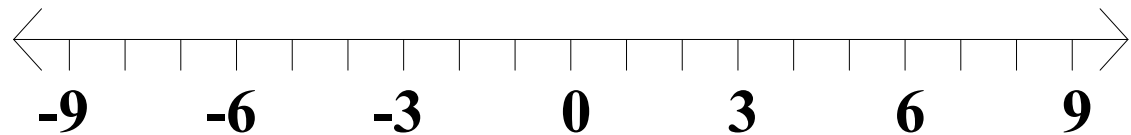
Absolute Value Inequalities

Solve the inequality and graph the solution set.

$$|x| < 3$$
$$-3 < x < 3$$



$$|x| < 5$$
$$-5 < x < 5$$

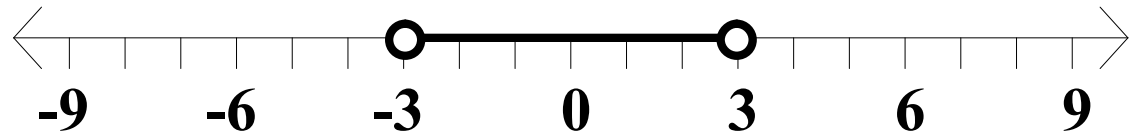


**This time, any solution must be less than 5 units from 0.
Once again, a continued inequality is used.**

Absolute Value Inequalities

Solve the inequality and graph the solution set.

$$|x| < 3$$
$$-3 < x < 3$$



$$|x| < 5$$
$$-5 < x < 5$$

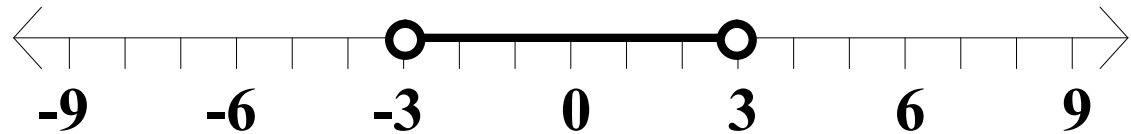


**This time, any solution must be less than 5 units from 0.
Once again, a continued inequality is used.**

Absolute Value Inequalities

Solve the inequality and graph the solution set.

$$|x| < 3$$
$$-3 < x < 3$$



$$|x| < 5$$
$$-5 < x < 5$$

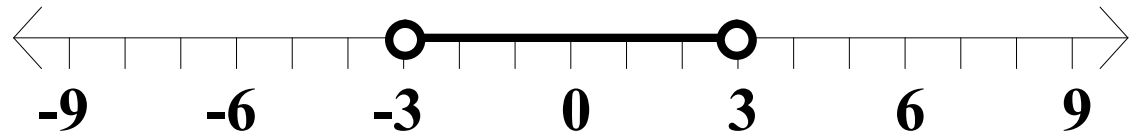


**This time, any solution must be less than 5 units from 0.
Once again, a continued inequality is used.
Don't forget to label any endpoint in the graph.**

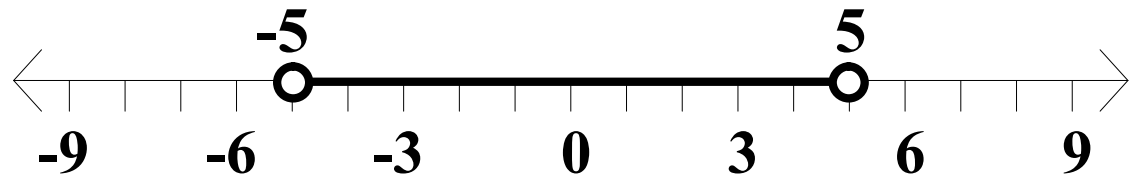
Absolute Value Inequalities

Solve the inequality and graph the solution set.

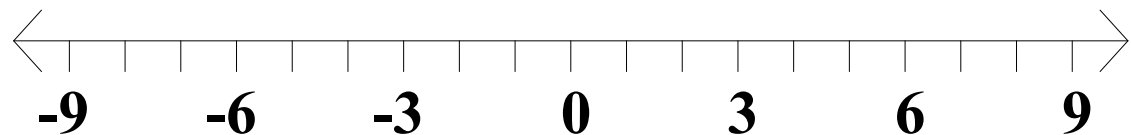
$$|x| < 3$$
$$-3 < x < 3$$



$$|x| < 5$$
$$-5 < x < 5$$



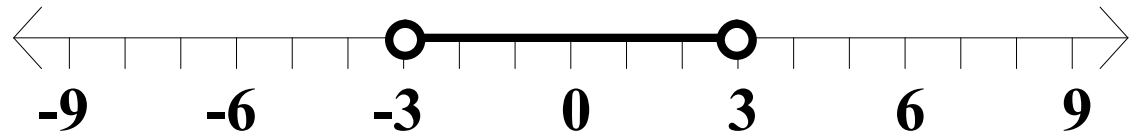
$$|x| \leq 8$$



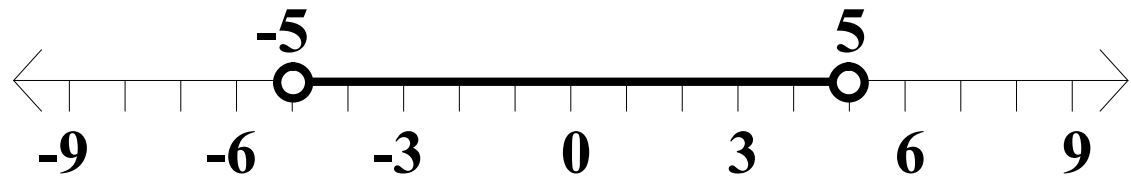
Absolute Value Inequalities

Solve the inequality and graph the solution set.

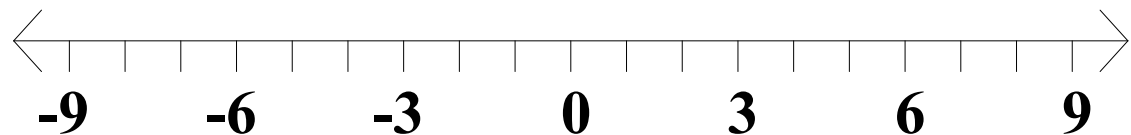
$$|x| < 3$$
$$-3 < x < 3$$



$$|x| < 5$$
$$-5 < x < 5$$



$$|x| \leq 8$$

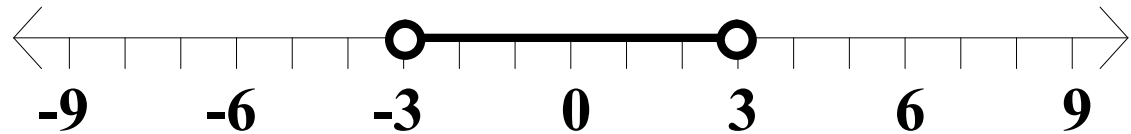


This time, the 'endpoints' are included.

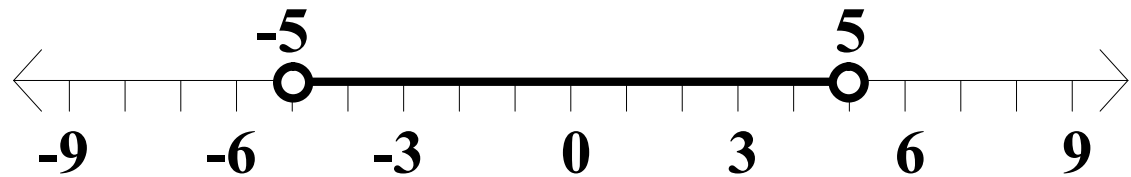
Absolute Value Inequalities

Solve the inequality and graph the solution set.

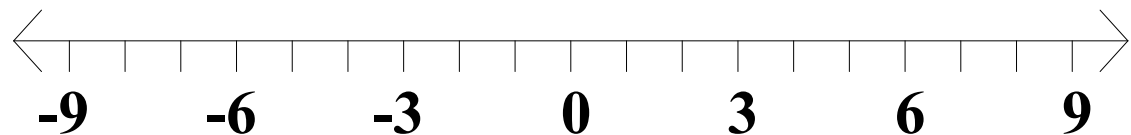
$$|x| < 3$$
$$-3 < x < 3$$



$$|x| < 5$$
$$-5 < x < 5$$



$$|x| \leq 8$$
$$-8 \leq x \leq 8$$

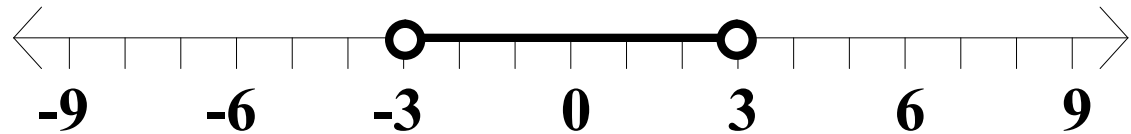


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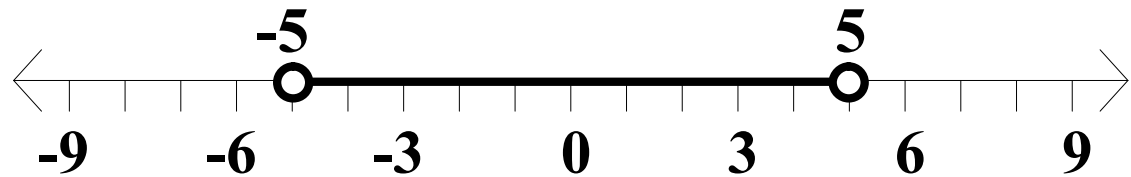
Absolute Value Inequalities

Solve the inequality and graph the solution set.

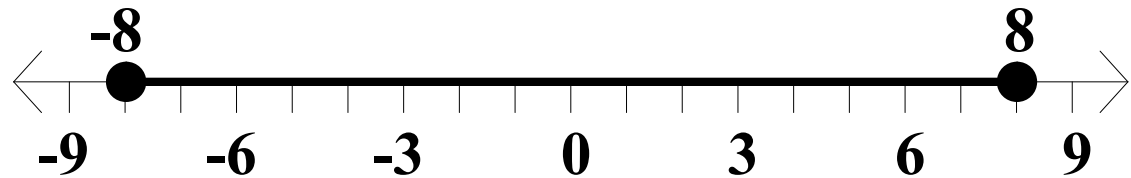
$$|x| < 3$$
$$-3 < x < 3$$



$$|x| < 5$$
$$-5 < x < 5$$



$$|x| \leq 8$$
$$-8 \leq x \leq 8$$

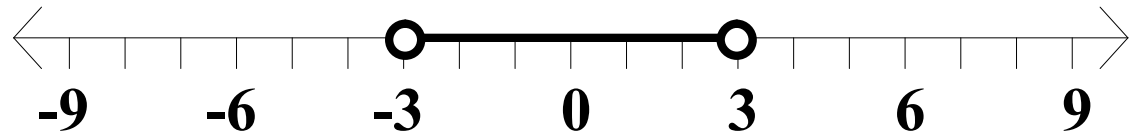


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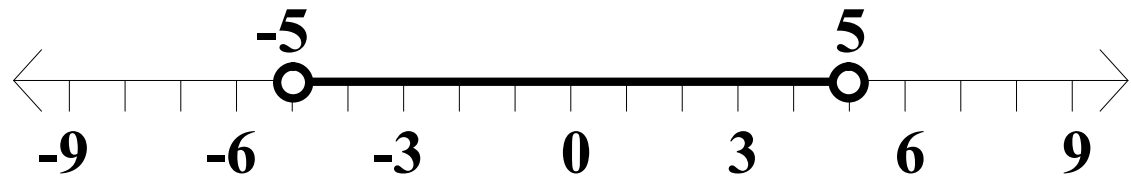
Absolute Value Inequalities

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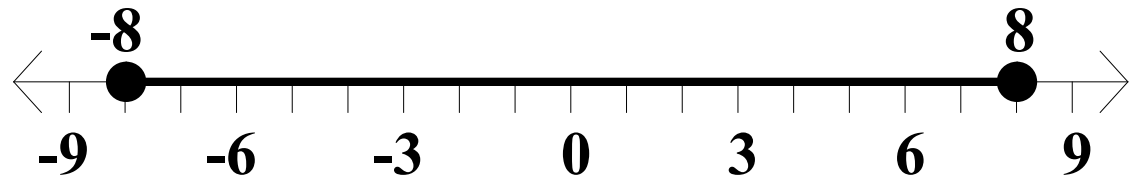
$$|x| < 3$$
$$-3 < x < 3$$



$$|x| < 5$$
$$-5 < x < 5$$



$$|x| \leq 8$$
$$-8 \leq x \leq 8$$

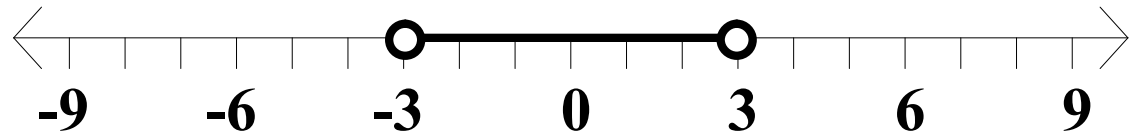


Here is the rule that is used to solve inequalities similar to these.

Absolute Value Inequalities

Solve the inequality and graph the solution set.

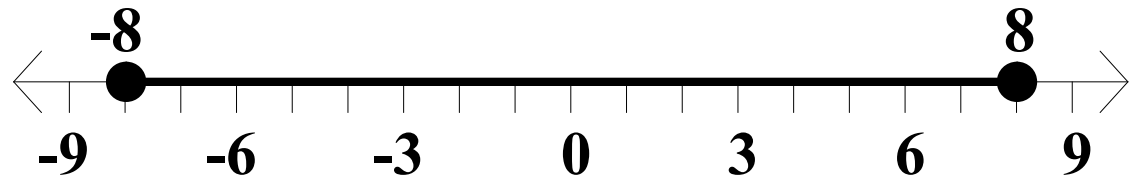
$$|x| < 3$$
$$-3 < x < 3$$



$$|x| < 5$$
$$-5 < x < 5$$



$$|x| \leq 8$$
$$-8 \leq x \leq 8$$



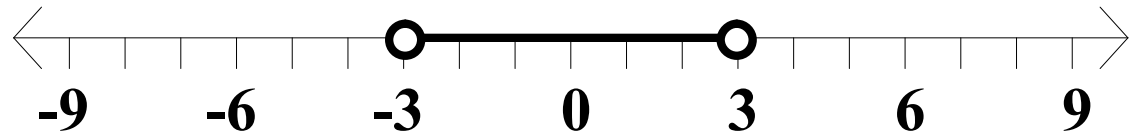
Here is the rule that is used to solve inequalities similar to these.

$$\text{If } |N| < k$$

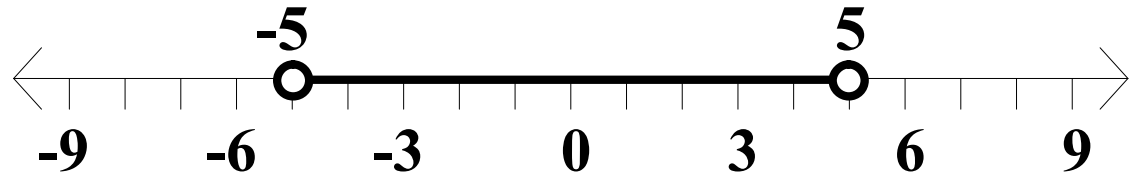
Absolute Value Inequalities

Solve the inequality and graph the solution set.

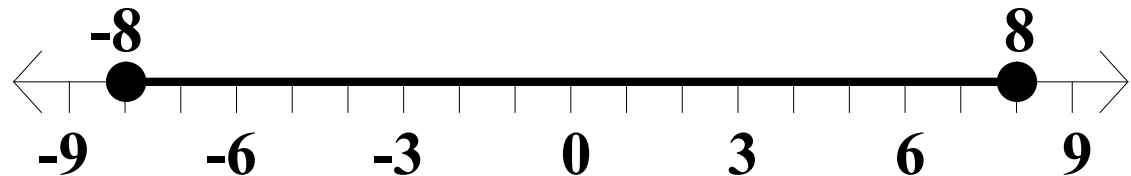
$$|x| < 3$$
$$-3 < x < 3$$



$$|x| < 5$$
$$-5 < x < 5$$



$$|x| \leq 8$$
$$-8 \leq x \leq 8$$



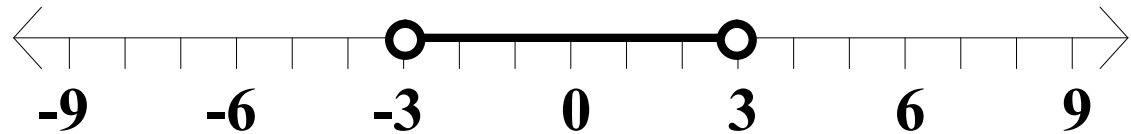
Here is the rule that is used to solve inequalities similar to these.

If $|N| < k$ and $k > 0$,

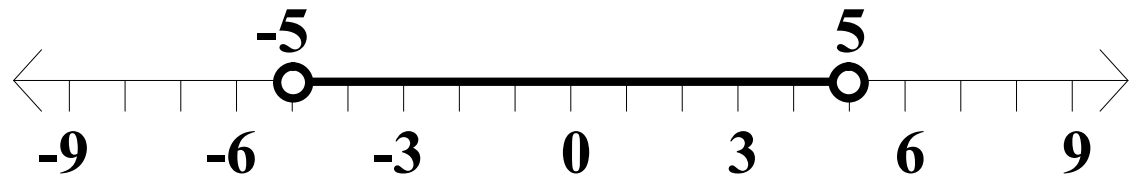
Absolute Value Inequalities

Solve the inequality and graph the solution set.

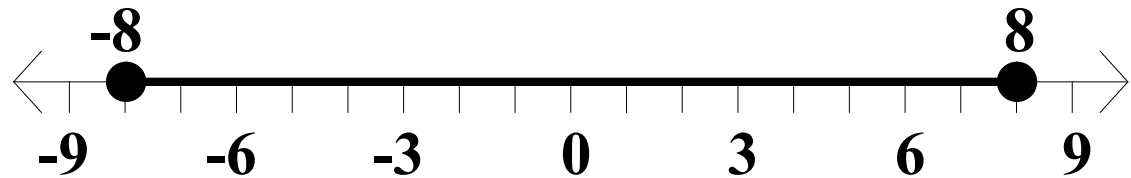
$$|x| < 3$$
$$-3 < x < 3$$



$$|x| < 5$$
$$-5 < x < 5$$



$$|x| \leq 8$$
$$-8 \leq x \leq 8$$



Here is the rule that is used to solve inequalities similar to these.

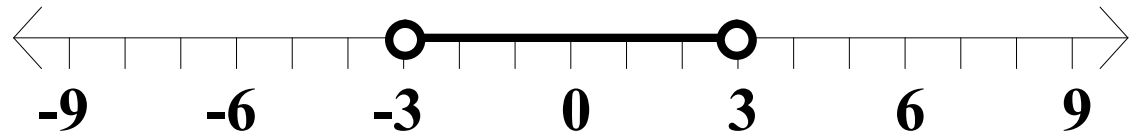
If $|N| < k$ and $k > 0$,

This is important !!

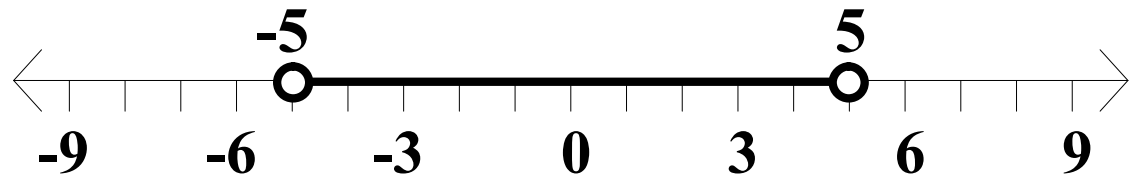
Absolute Value Inequalities

Solve the inequality and graph the solution set.

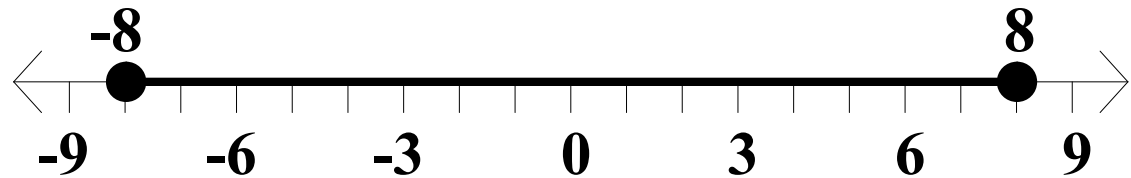
$$|x| < 3$$
$$-3 < x < 3$$



$$|x| < 5$$
$$-5 < x < 5$$



$$|x| \leq 8$$
$$-8 \leq x \leq 8$$



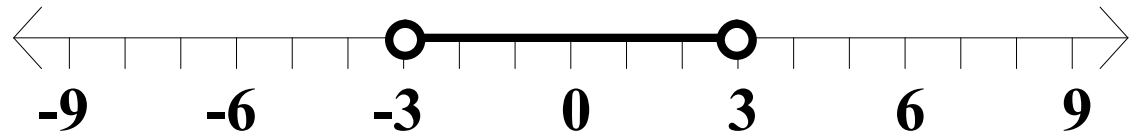
Here is the rule that is used to solve inequalities similar to these.

If $|N| < k$ and $k > 0$,

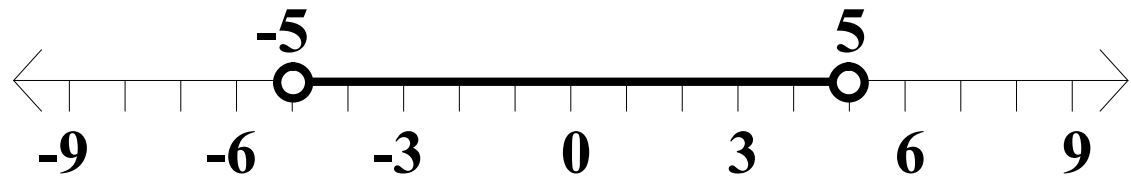
Absolute Value Inequalities

Solve the inequality and graph the solution set.

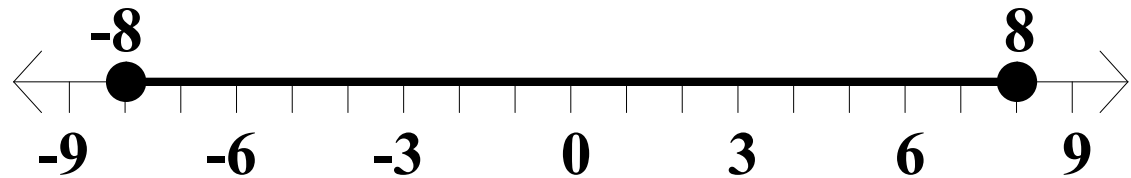
$$|x| < 3$$
$$-3 < x < 3$$



$$|x| < 5$$
$$-5 < x < 5$$



$$|x| \leq 8$$
$$-8 \leq x \leq 8$$



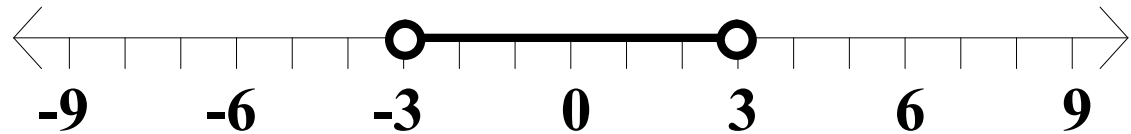
Here is the rule that is used to solve inequalities similar to these.

If $|N| < k$ and $k > 0$, then $-k < N < k$.

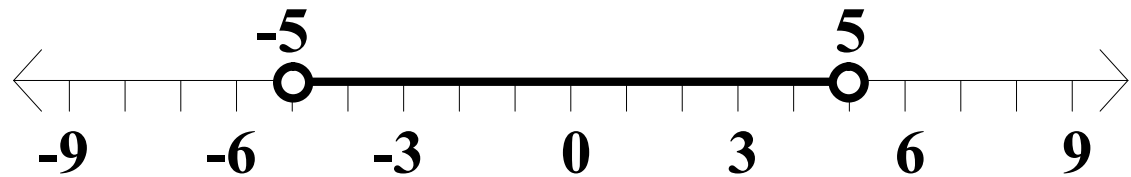
Absolute Value Inequalities

Solve the inequality and graph the solution set.

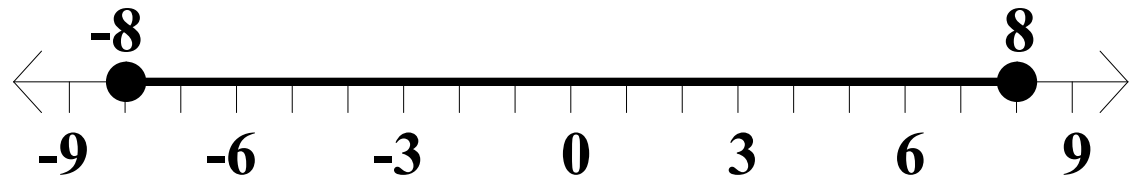
$$|x| < 3$$
$$-3 < x < 3$$



$$|x| < 5$$
$$-5 < x < 5$$



$$|x| \leq 8$$
$$-8 \leq x \leq 8$$



Here is the rule that is used to solve inequalities similar to these.

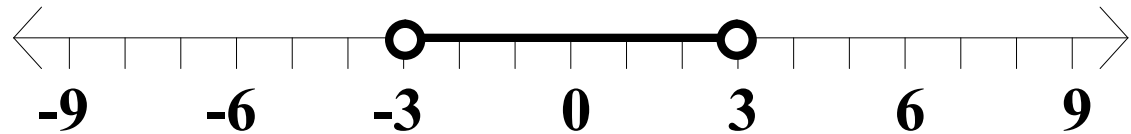
If $|N| < k$ and $k > 0$, then $-k < N < k$.

If $|N| \leq k$

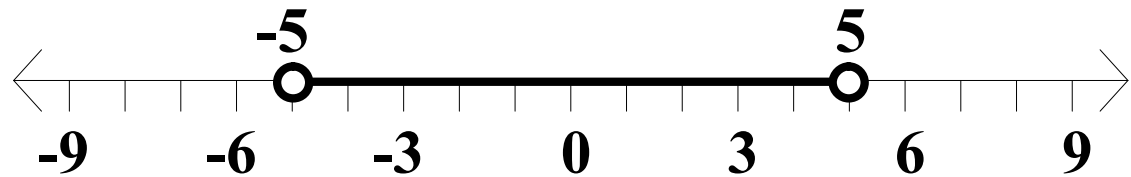
Absolute Value Inequalities

Solve the inequality and graph the solution set.

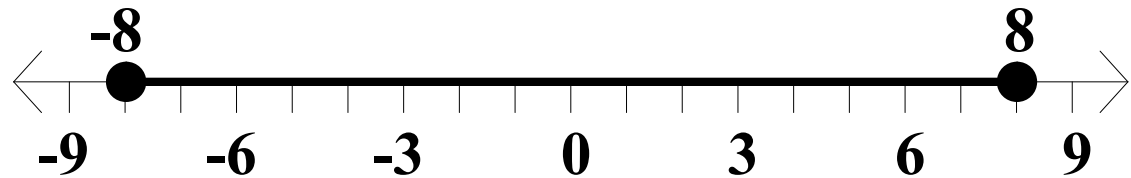
$$|x| < 3$$
$$-3 < x < 3$$



$$|x| < 5$$
$$-5 < x < 5$$



$$|x| \leq 8$$
$$-8 \leq x \leq 8$$



Here is the rule that is used to solve inequalities similar to these.

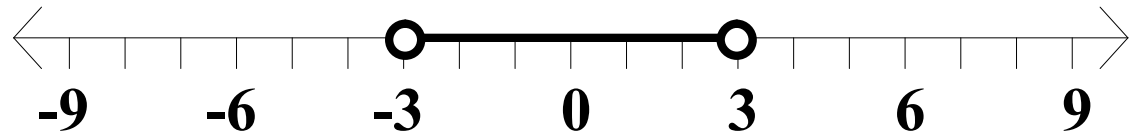
If $|N| < k$ and $k > 0$, then $-k < N < k$.

If $|N| \leq k$ and $k > 0$,

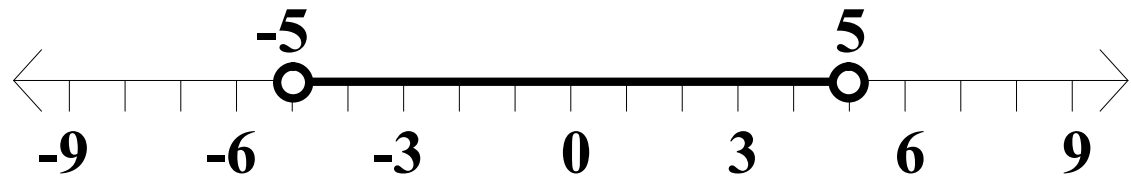
Absolute Value Inequalities

Solve the inequality and graph the solution set.

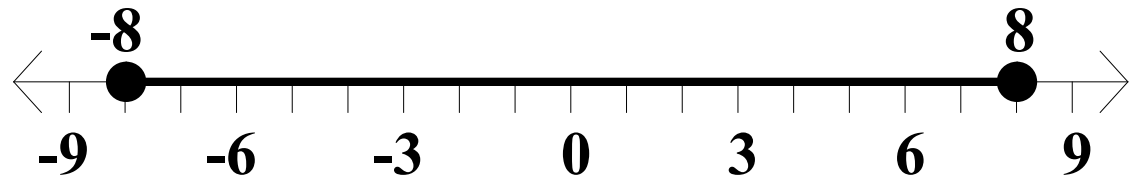
$$|x| < 3$$
$$-3 < x < 3$$



$$|x| < 5$$
$$-5 < x < 5$$



$$|x| \leq 8$$
$$-8 \leq x \leq 8$$



Here is the rule that is used to solve inequalities similar to these.

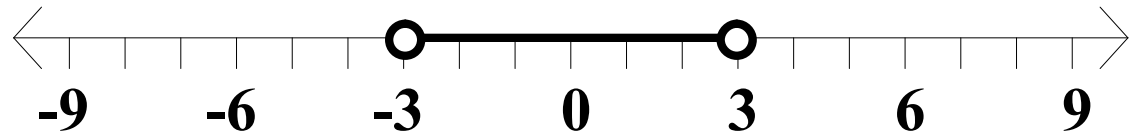
If $|N| < k$ and $k > 0$, then $-k < N < k$.

If $|N| \leq k$ and $k > 0$, then $-k \leq N \leq k$.

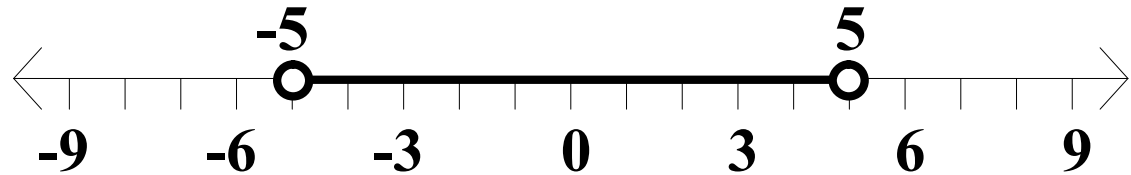
Absolute Value Inequalities

Solve the inequality and graph the solution set.

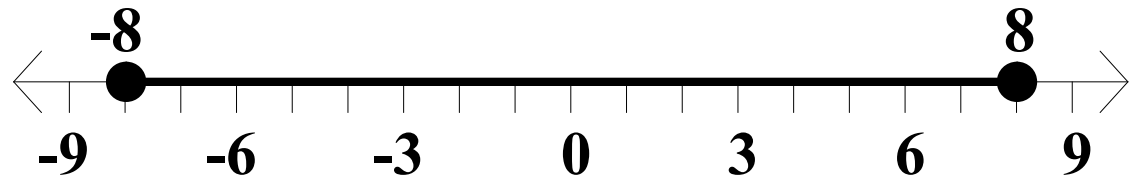
$$|x| < 3$$
$$-3 < x < 3$$



$$|x| < 5$$
$$-5 < x < 5$$



$$|x| \leq 8$$
$$-8 \leq x \leq 8$$



Here is the rule that is used to solve inequalities similar to these.

If $|N| < k$ and $k > 0$, then $-k < N < k$.

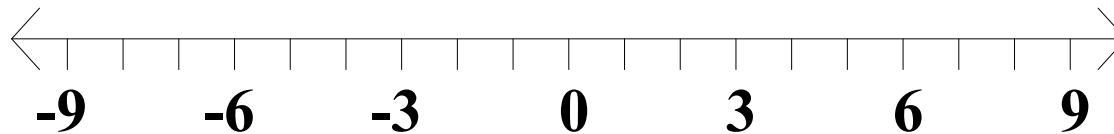
If $|N| \leq k$ and $k > 0$, then $-k \leq N \leq k$.

Absolute Value Inequalities

Absolute Value Inequalities

Solve the inequality and graph the solution set.

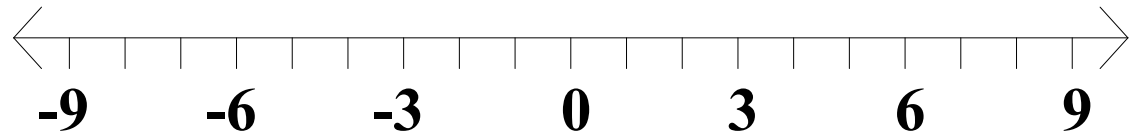
$$|x| > 3$$



Absolute Value Inequalities

Solve the inequality and graph the solution set.

$$|x| > 3$$



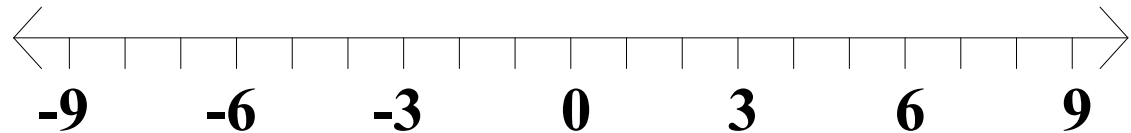
This time, any solution must be more than 3 units from 0.

Absolute Value Inequalities

Solve the inequality and graph the solution set.

$$|x| > 3$$

$$x < -3$$



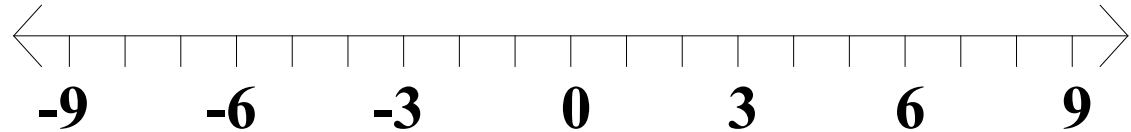
This time, any solution must be more than 3 units from 0.
x must be less than -3

Absolute Value Inequalities

Solve the inequality and graph the solution set.

$$|x| > 3$$

$$x < -3 \text{ or}$$



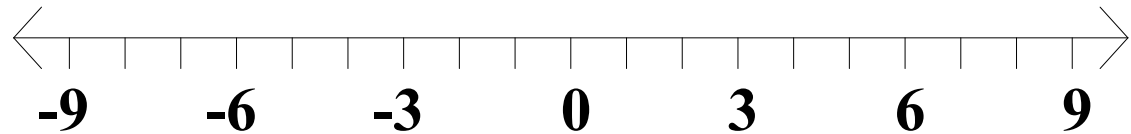
This time, any solution must be more than 3 units from 0.
x must be less than -3 or

Absolute Value Inequalities

Solve the inequality and graph the solution set.

$$|x| > 3$$

$$x < -3 \text{ or } x > 3$$

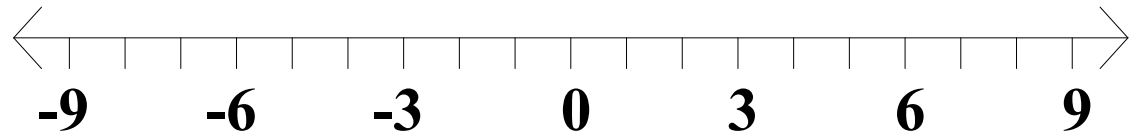


This time, any solution must be more than 3 units from 0.
x must be less than -3 or greater than 3.

Absolute Value Inequalities

Solve the inequality and graph the solution set.

$$|x| > 3$$
$$x < -3 \text{ or } x > 3$$



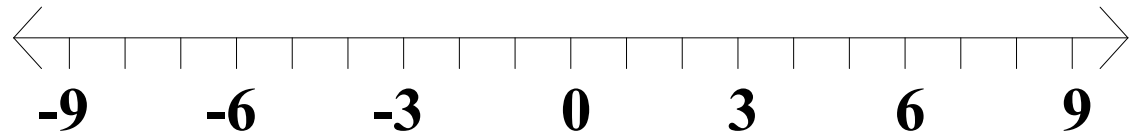
This time, any solution must be more than 3 units from 0.
x must be less than -3 or greater than 3.

The solution cannot be represented using a continued inequality.

Absolute Value Inequalities

Solve the inequality and graph the solution set.

$$|x| > 3$$
$$x < -3 \text{ or } x > 3$$



This time, any solution must be more than 3 units from 0.
x must be less than -3 or greater than 3.

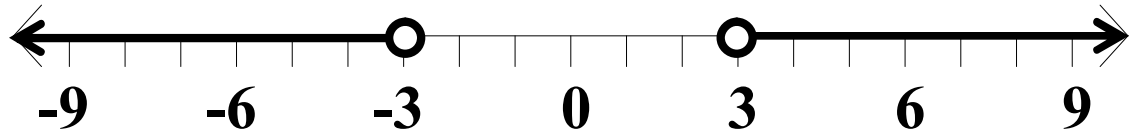
The solution cannot be represented using a continued inequality.

The graph looks like this.

Absolute Value Inequalities

Solve the inequality and graph the solution set.

$$|x| > 3$$
$$x < -3 \text{ or } x > 3$$



This time, any solution must be more than 3 units from 0.
x must be less than -3 or greater than 3.

The solution cannot be represented using a continued inequality.

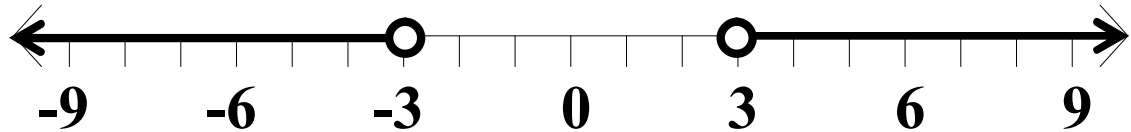
The graph looks like this.

Absolute Value Inequalities

Solve the inequality and graph the solution set.

$$|x| > 3$$

$$x < -3 \text{ or } x > 3$$

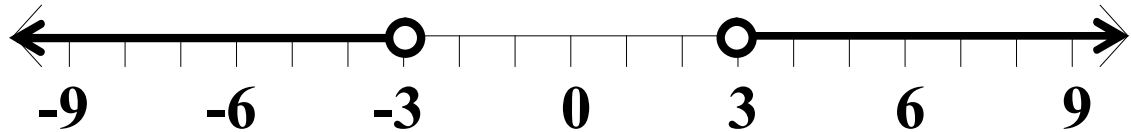


Absolute Value Inequalities

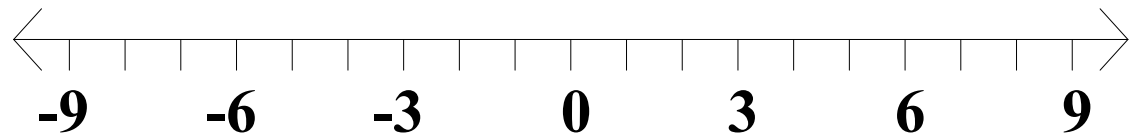
Solve the inequality and graph the solution set.

$$|x| > 3$$

$$x < -3 \text{ or } x > 3$$



$$|x| > 5$$

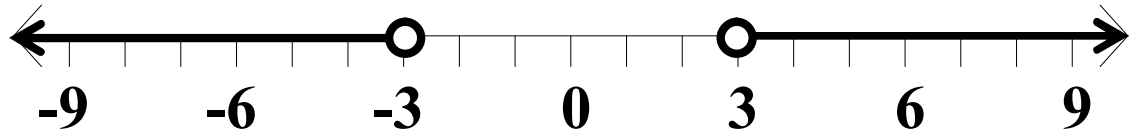


Absolute Value Inequalities

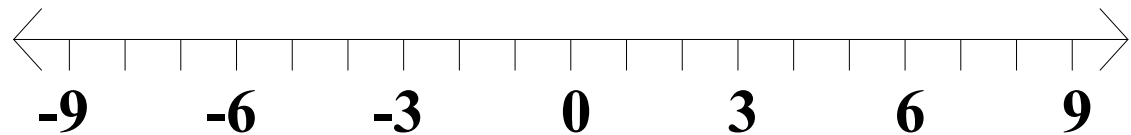
Solve the inequality and graph the solution set.

$$|x| > 3$$

$$x < -3 \text{ or } x > 3$$



$$|x| > 5$$



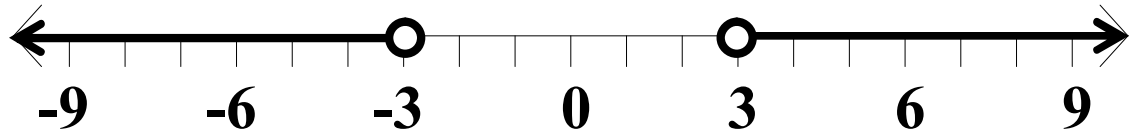
This time, any solution must be more than 5 units from 0.

Absolute Value Inequalities

Solve the inequality and graph the solution set.

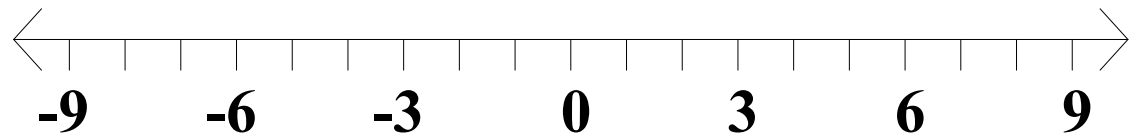
$$|x| > 3$$

$$x < -3 \text{ or } x > 3$$



$$|x| > 5$$

$$x < -5$$



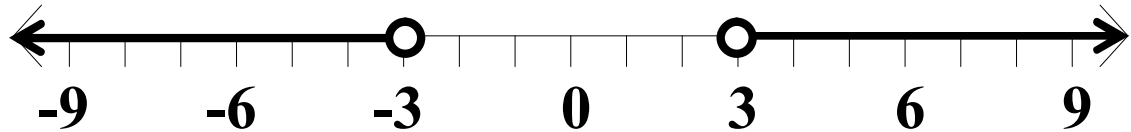
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Absolute Value Inequalities

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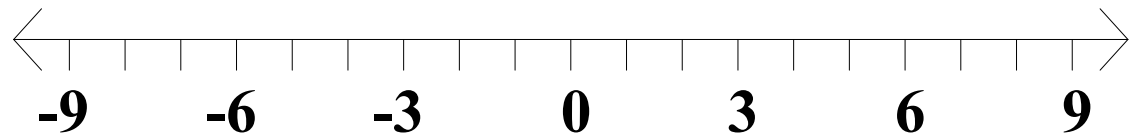
$$|x| > 3$$

$$x < -3 \text{ or } x > 3$$



$$|x| > 5$$

$$x < -5 \text{ or}$$



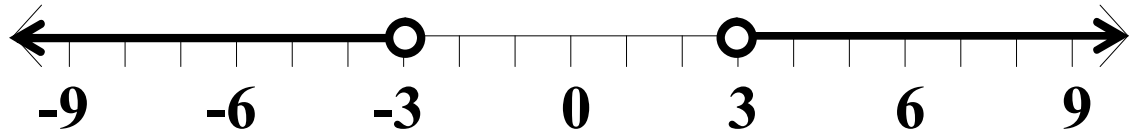
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Solve the inequality and graph the solution set.

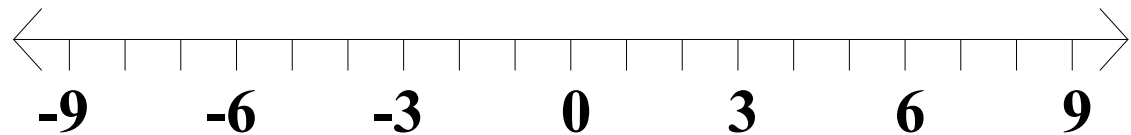
$$|x| > 3$$

$$x < -3 \text{ or } x > 3$$



$$|x| > 5$$

$$x < -5 \text{ or } x > 5$$



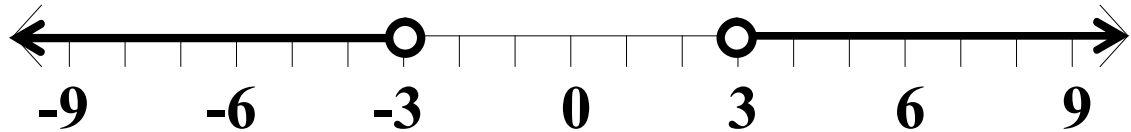
This time, any solution must be more than 5 units from 0.

Absolute Value Inequalities

Solve the inequality and graph the solution set.

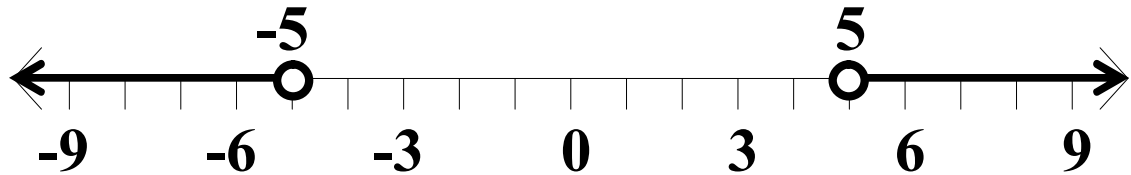
$$|x| > 3$$

$$x < -3 \text{ or } x > 3$$



$$|x| > 5$$

$$x < -5 \text{ or } x > 5$$



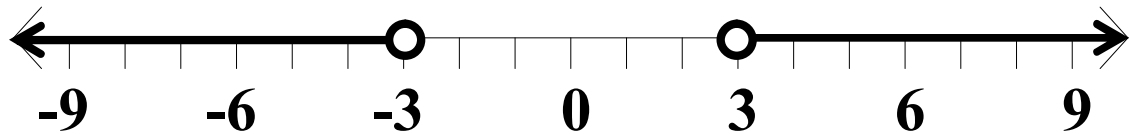
This time, any solution must be more than 5 units from 0.

Absolute Value Inequalities

Solve the inequality and graph the solution set.

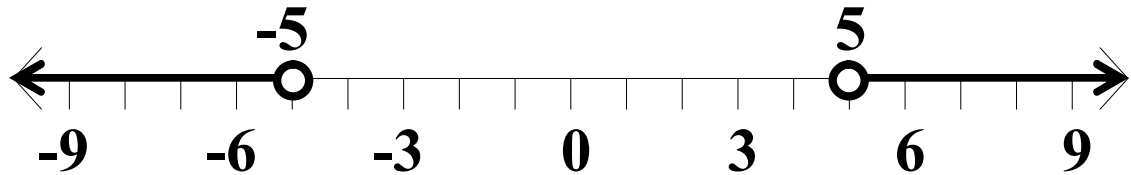
$$|x| > 3$$

$$x < -3 \text{ or } x > 3$$



$$|x| > 5$$

$$x < -5 \text{ or } x > 5$$



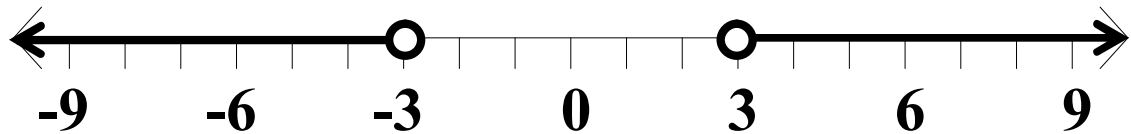
**This time, any solution must be more than 5 units from 0.
Once again, a continued inequality cannot be used.**

Absolute Value Inequalities

Solve the inequality and graph the solution set.

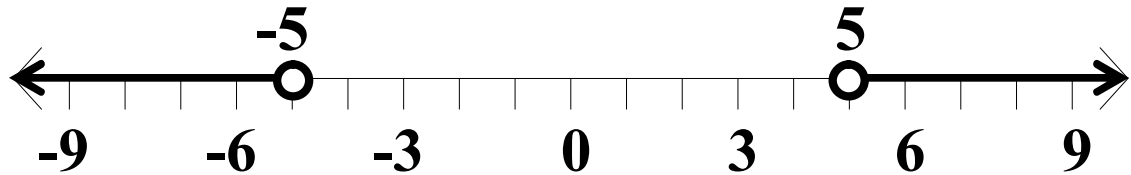
$$|x| > 3$$

$$x < -3 \text{ or } x > 3$$



$$|x| > 5$$

$$x < -5 \text{ or } x > 5$$



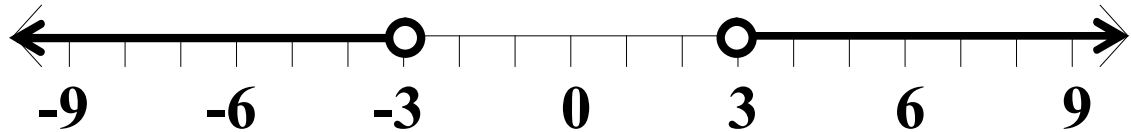
**This time, any solution must be more than 5 units from 0.
Once again, a continued inequality cannot be used.
Don't forget to label any endpoint in the graph.**

Absolute Value Inequalities

Solve the inequality and graph the solution set.

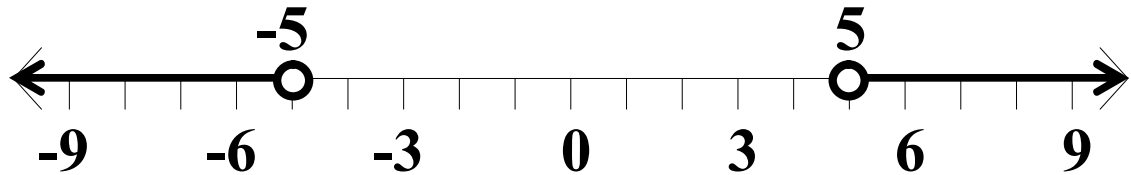
$$|x| > 3$$

$$x < -3 \text{ or } x > 3$$



$$|x| > 5$$

$$x < -5 \text{ or } x > 5$$

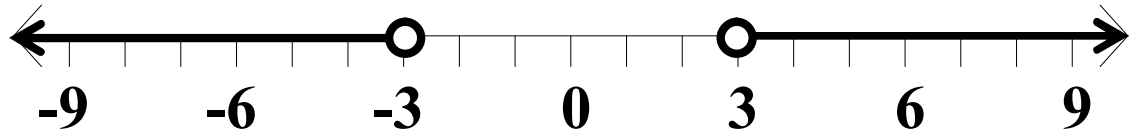


Absolute Value Inequalities

Solve the inequality and graph the solution set.

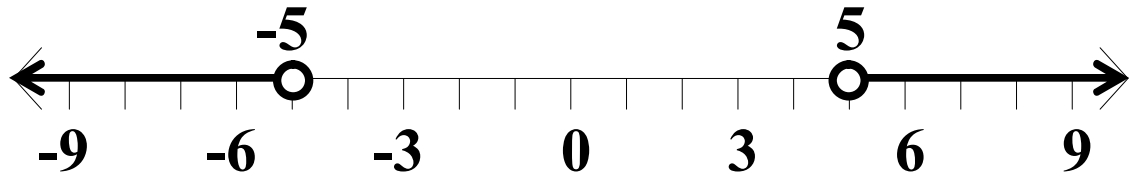
$$|x| > 3$$

$$x < -3 \text{ or } x > 3$$

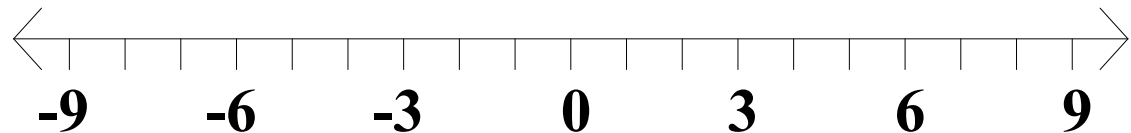


$$|x| > 5$$

$$x < -5 \text{ or } x > 5$$



$$|x| \geq 4$$

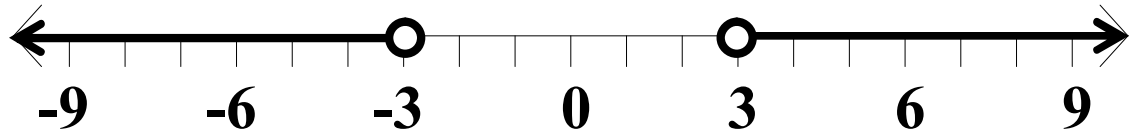


Absolute Value Inequalities

Solve the inequality and graph the solution set.

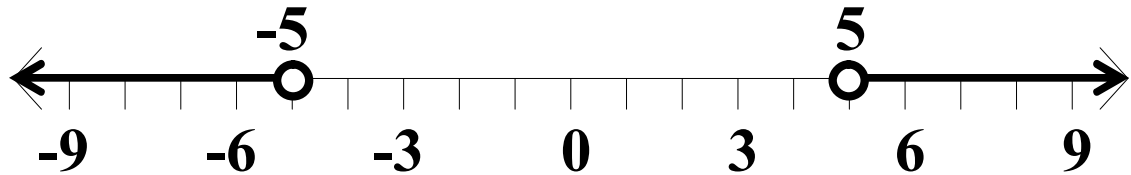
$$|x| > 3$$

$$x < -3 \text{ or } x > 3$$

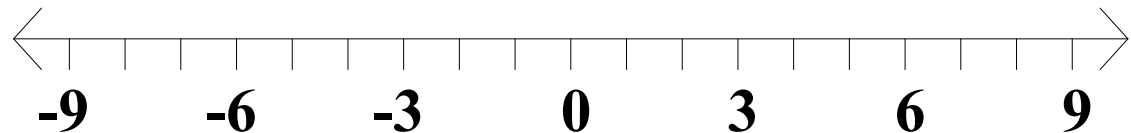


$$|x| > 5$$

$$x < -5 \text{ or } x > 5$$



$$|x| \geq 4$$



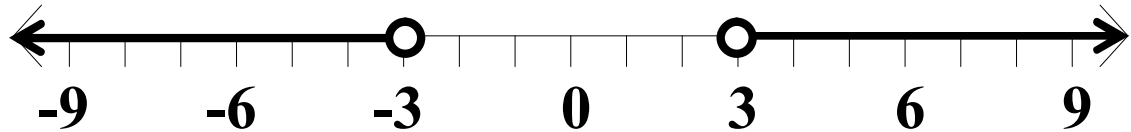
This time, the 'endpoints' are included.

Absolute Value Inequalities

Solve the inequality and graph the solution set.

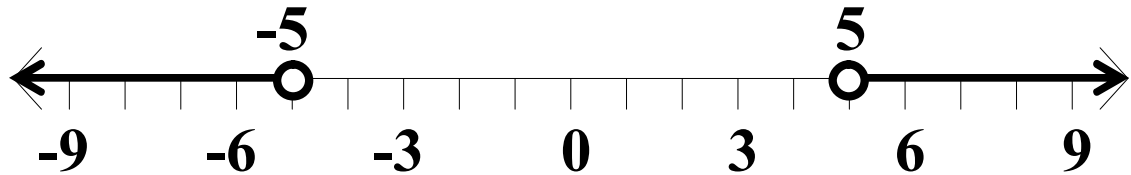
$$|x| > 3$$

$$x < -3 \text{ or } x > 3$$



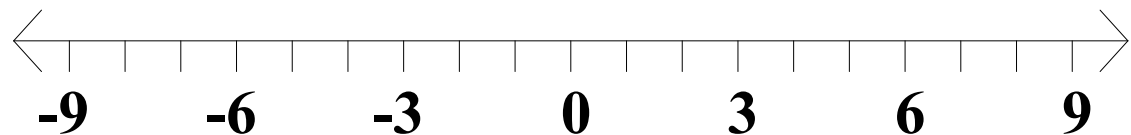
$$|x| > 5$$

$$x < -5 \text{ or } x > 5$$



$$|x| \geq 4$$

$$x \leq -4$$



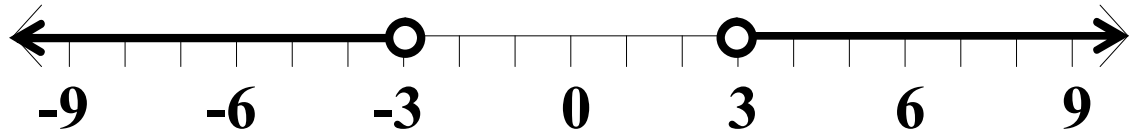
This time, the 'endpoints' are included.

Absolute Value Inequalities

Solve the inequality and graph the solution set.

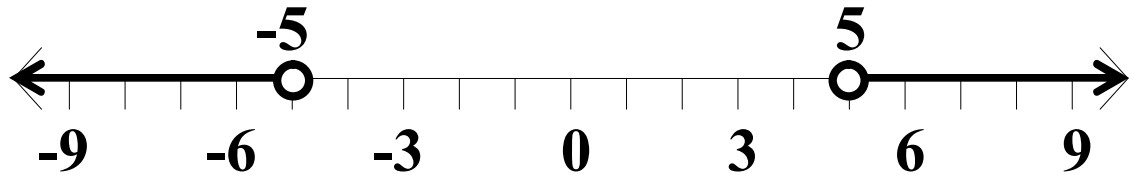
$$|x| > 3$$

$$x < -3 \text{ or } x > 3$$



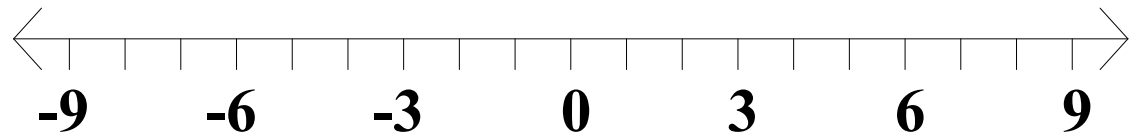
$$|x| > 5$$

$$x < -5 \text{ or } x > 5$$



$$|x| \geq 4$$

$$x \leq -4 \text{ or } x \geq 4$$



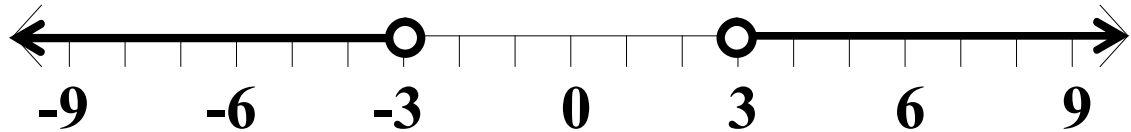
This time, the 'endpoints' are included.

Absolute Value Inequalities

Solve the inequality and graph the solution set.

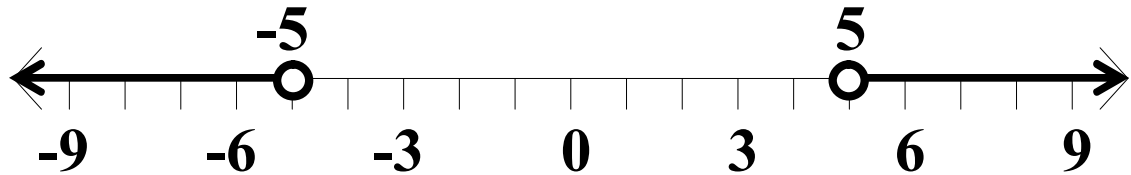
$$|x| > 3$$

$$x < -3 \text{ or } x > 3$$



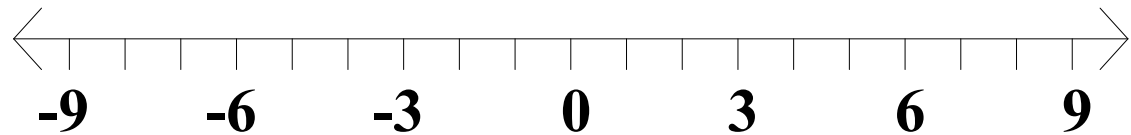
$$|x| > 5$$

$$x < -5 \text{ or } x > 5$$



$$|x| \geq 4$$

$$x \leq -4 \text{ or } x \geq 4$$



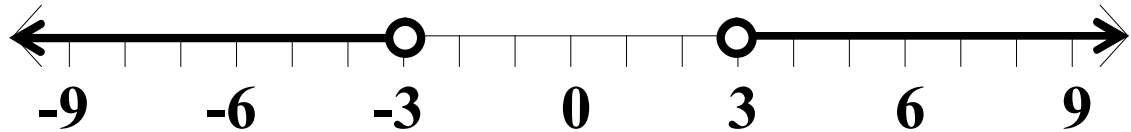
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Absolute Value Inequalities

Solve the inequality and graph the solution set.

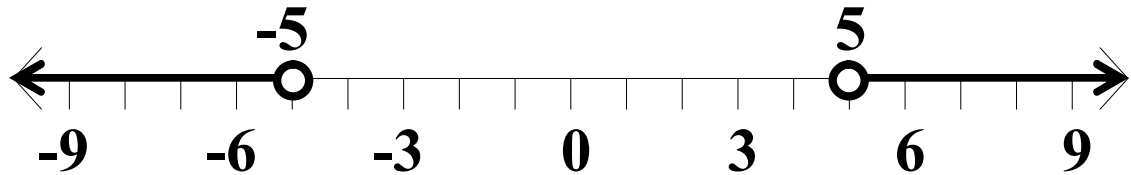
$$|x| > 3$$

$$x < -3 \text{ or } x > 3$$



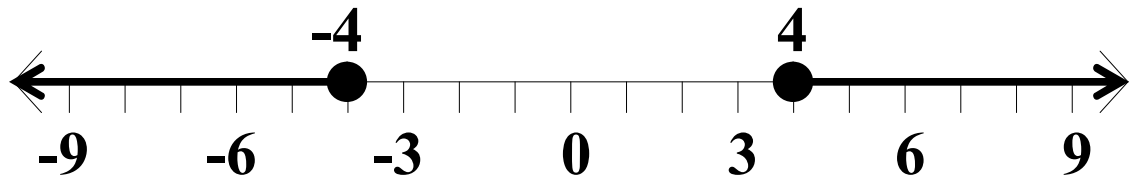
$$|x| > 5$$

$$x < -5 \text{ or } x > 5$$



$$|x| \geq 4$$

$$x \leq -4 \text{ or } x \geq 4$$



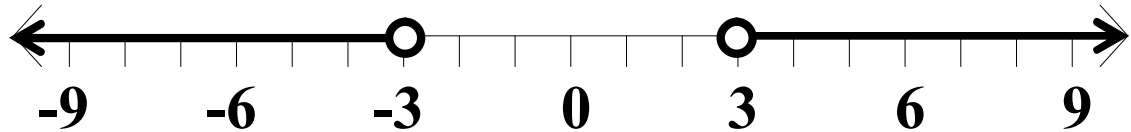
This time, the 'endpoints' are included.

Absolute Value Inequalities

Solve the inequality and graph the solution set.

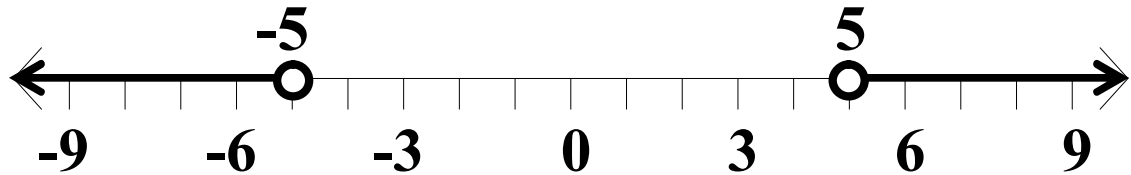
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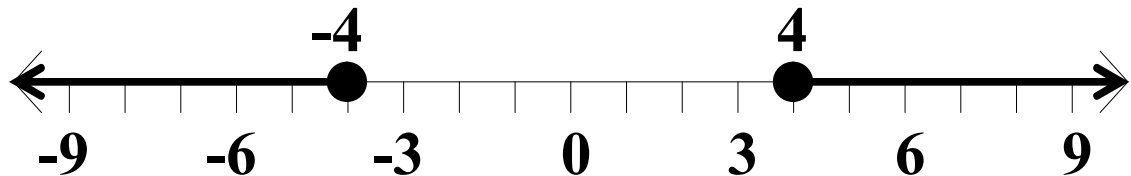
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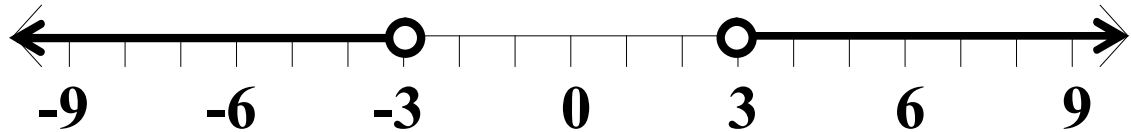


Absolute Value Inequalities

Solve the inequality and graph the solution set.

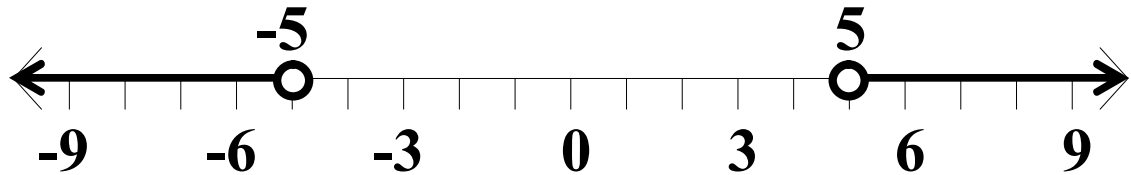
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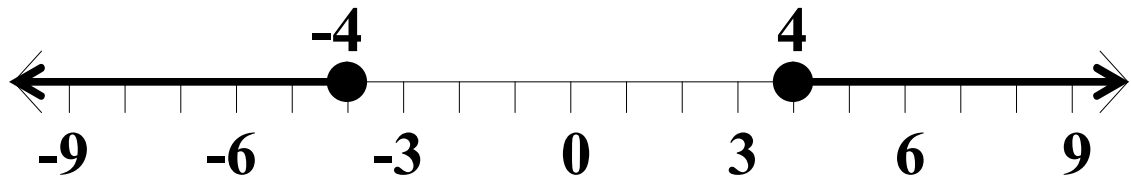
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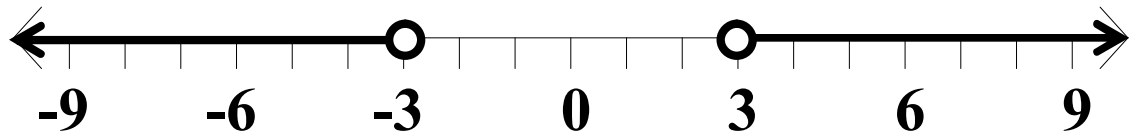
Here is the rule that is used to solve inequalities similar to these.

Absolute Value Inequalities

Solve the inequality and graph the solution set.

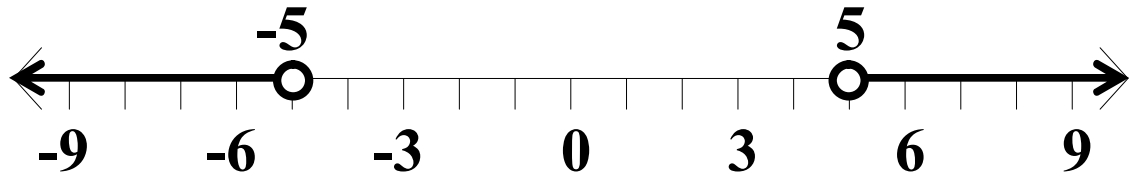
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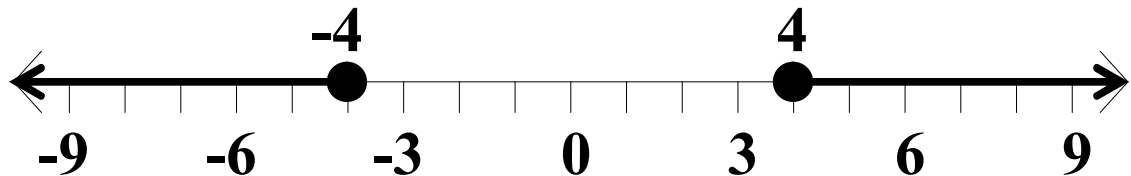
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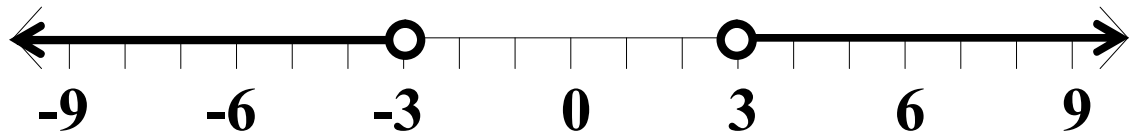
$$\text{If } |N| > k$$

Absolute Value Inequalities

Solve the inequality and graph the solution set.

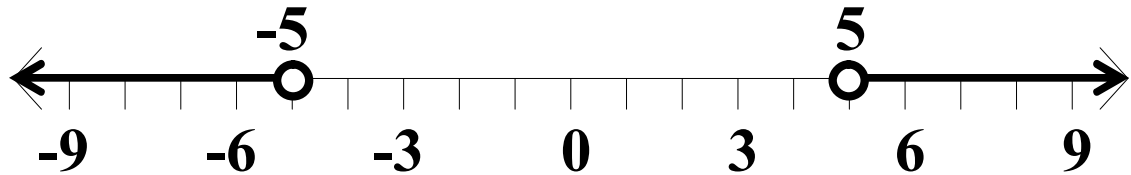
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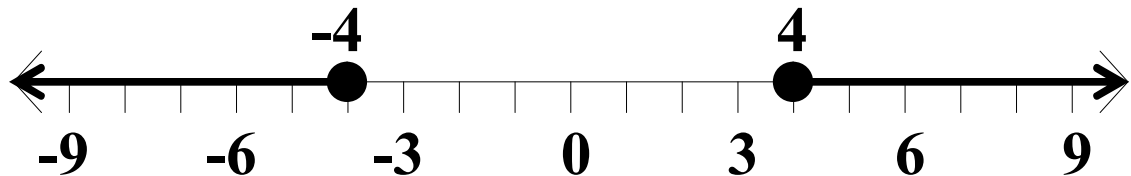
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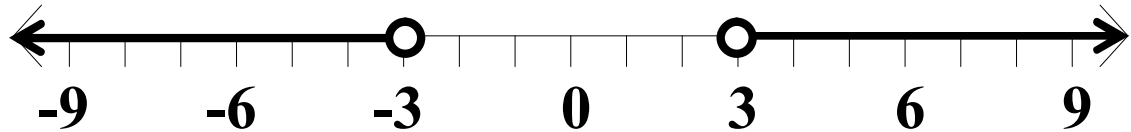
If $|N| > k$ and $k > 0$,

Absolute Value Inequalities

Solve the inequality and graph the solution set.

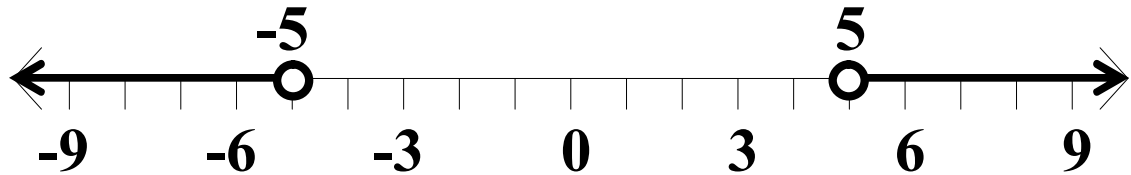
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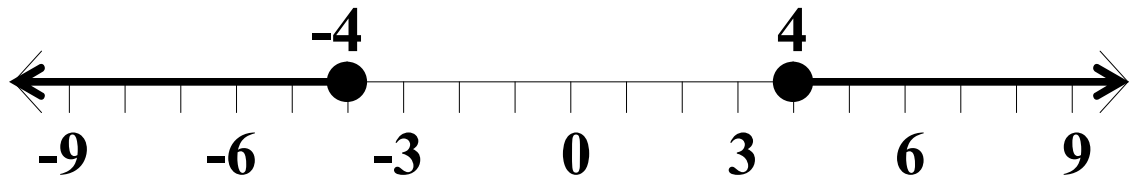
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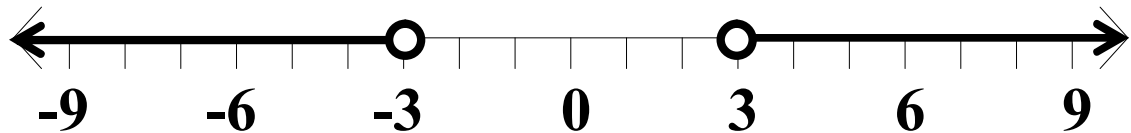
This is important !!

Absolute Value Inequalities

Solve the inequality and graph the solution set.

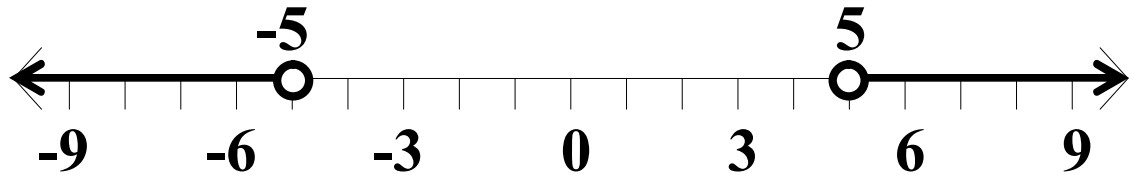
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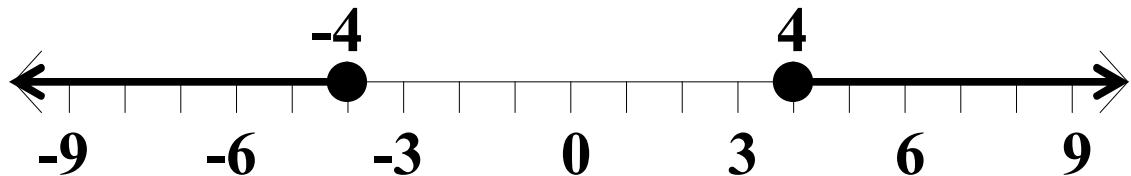
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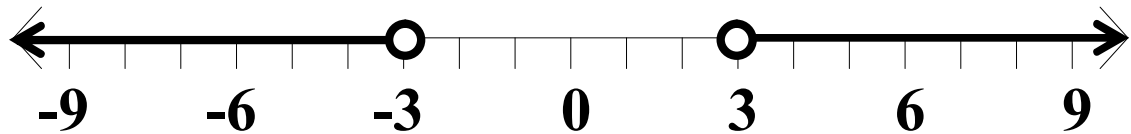
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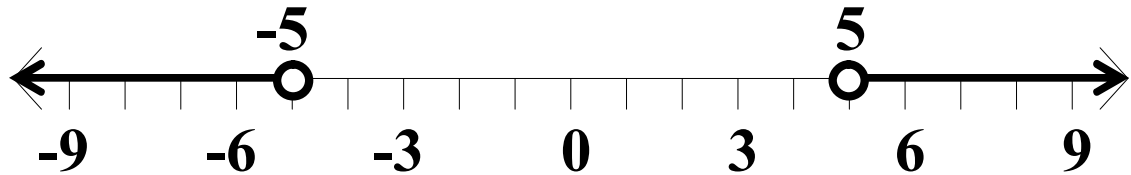
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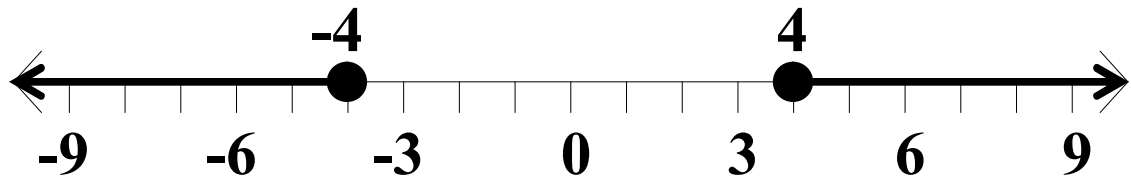
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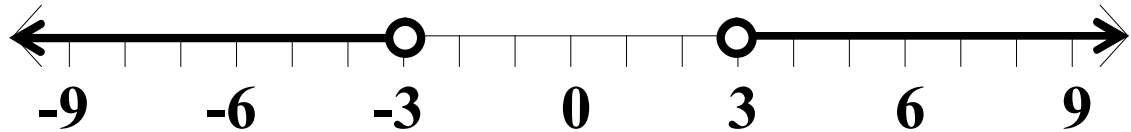
If $|N| > k$ and $k > 0$, then $N < -k$

Absolute Value Inequalities

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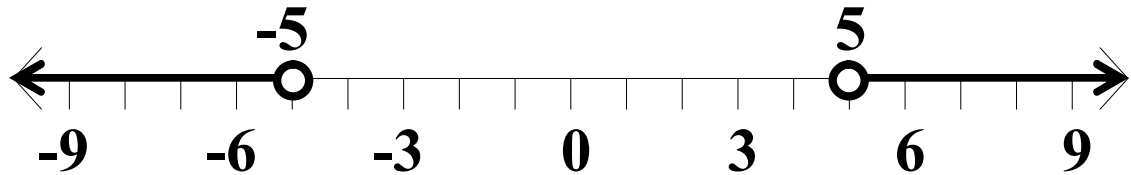
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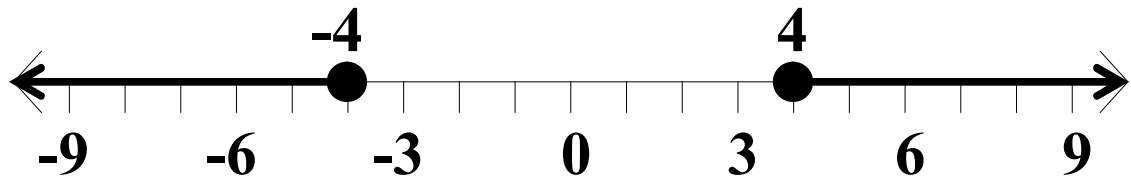
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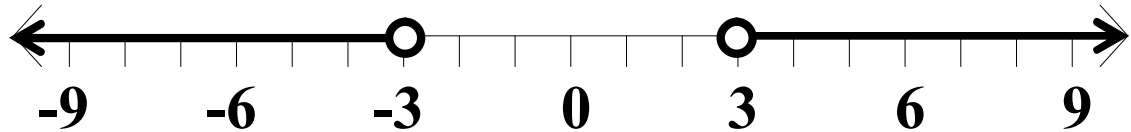
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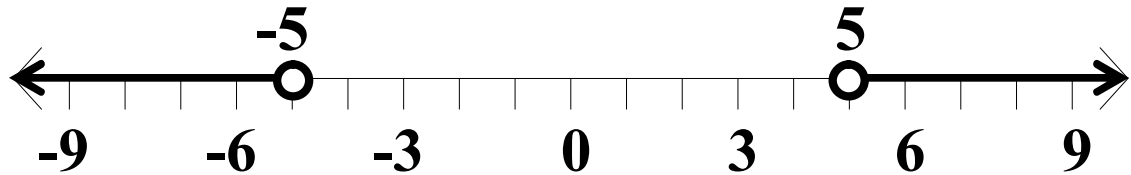
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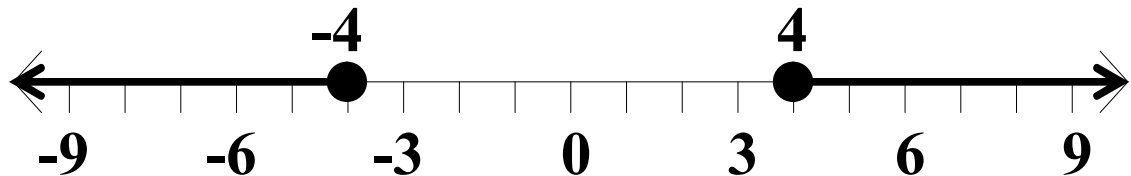
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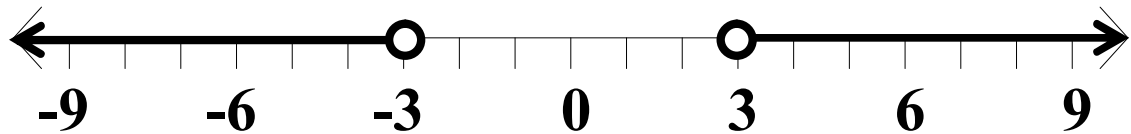
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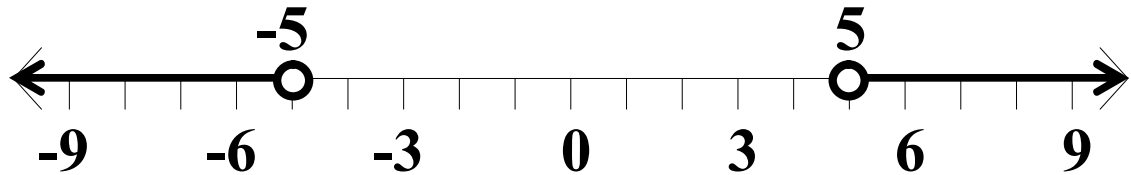
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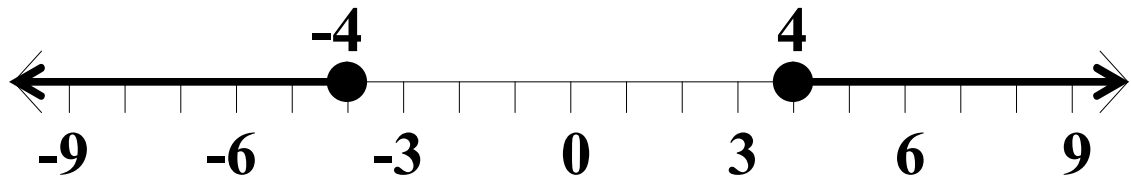
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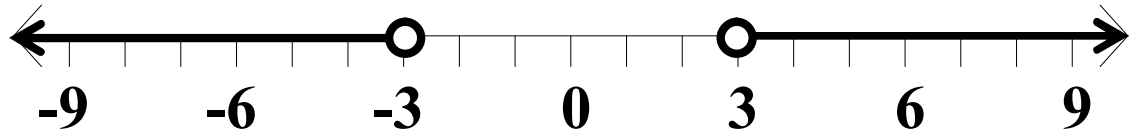
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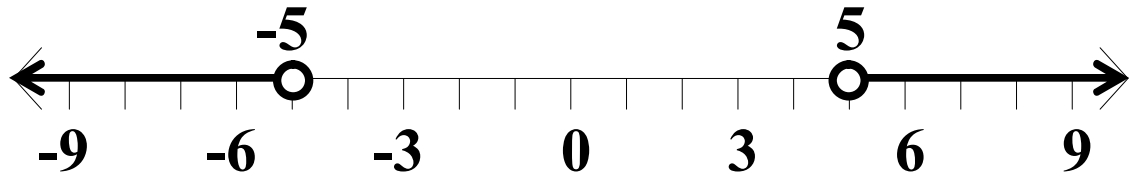
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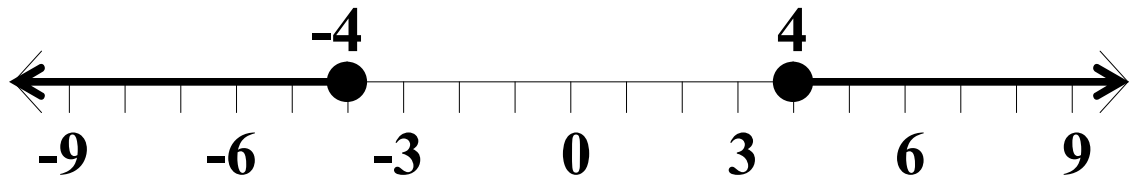
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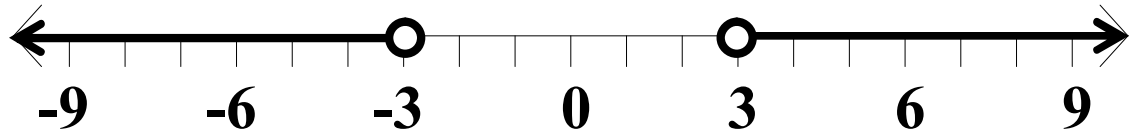
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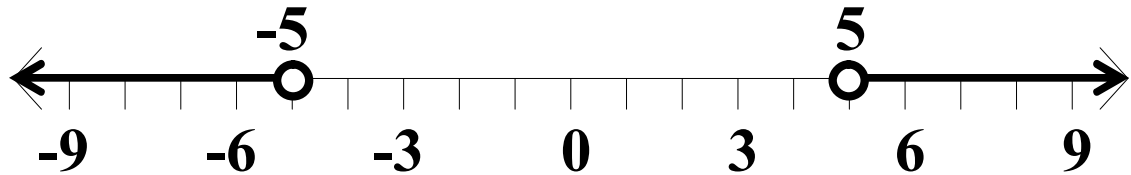
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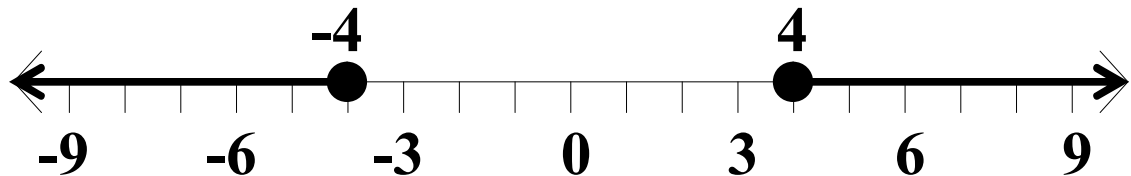
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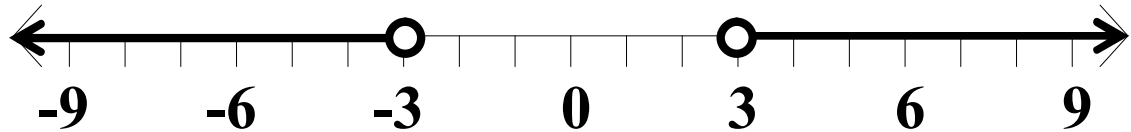
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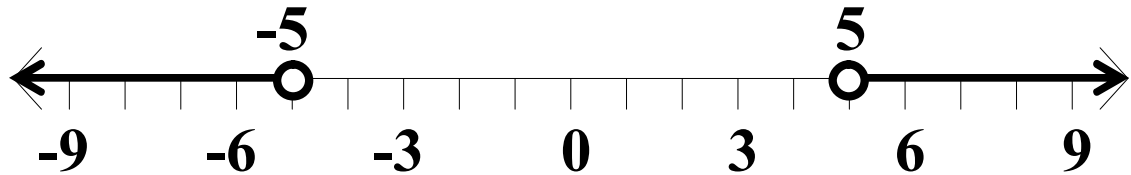
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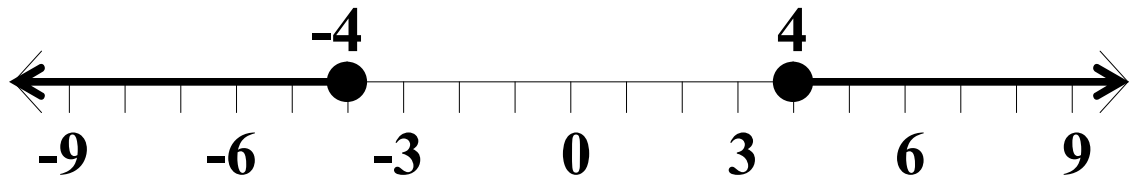
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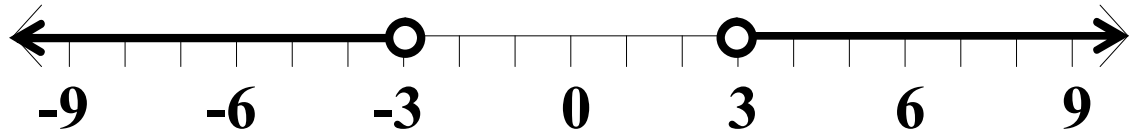
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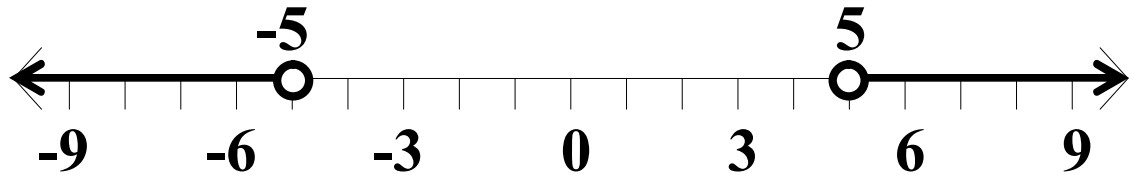
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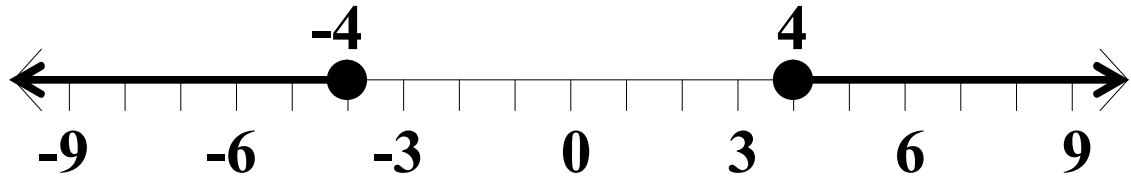
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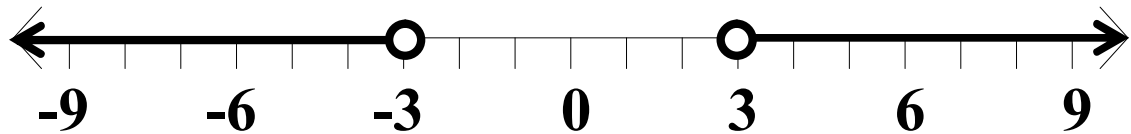
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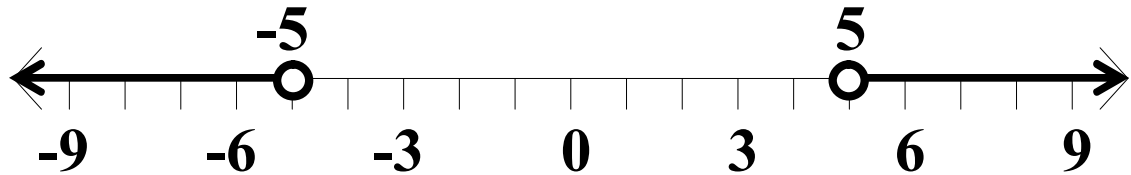
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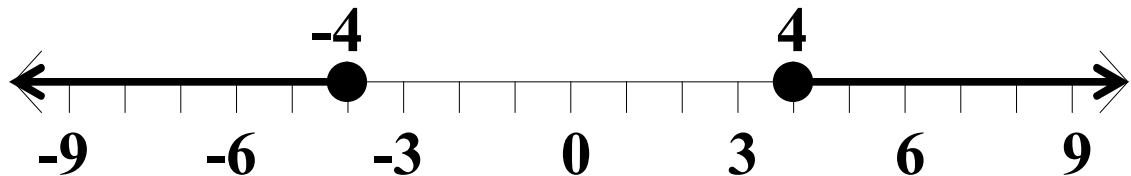
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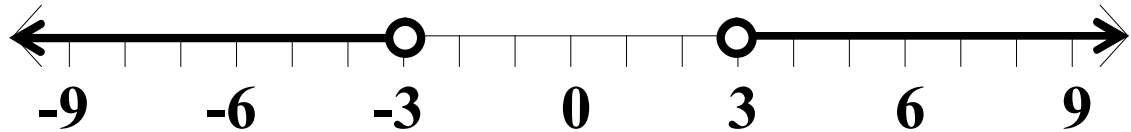
If $|N| \geq k$ and $k > 0$, then $N \leq -k$ or $N \geq k$.

Absolute Value Inequalities

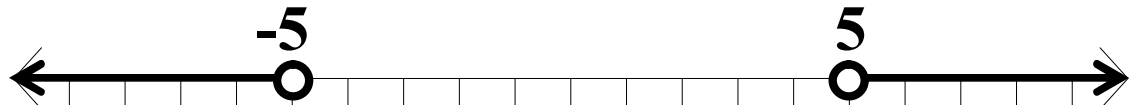
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$$|x| > 3$$

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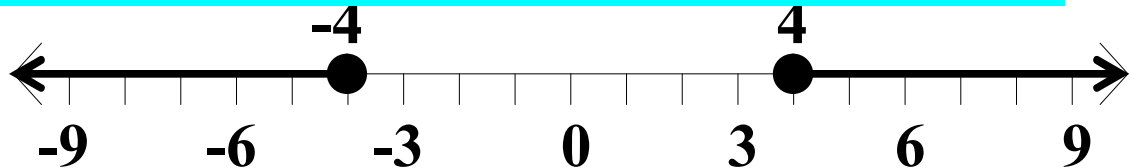
$$|x| > 5$$



Good luck on your homework !!

$$|x| \geq 4$$

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If $|N| > k$ and $k > 0$, then $N < -k$ or $N > k$.

If $|N| \geq k$ and $k > 0$, then $N \leq -k$ or $N \geq k$.

