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

Consider the following problems.

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

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

3 and -3 are both 3 units from 0.

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3 and -3 are both 3 units from 0.

5 and -5 are both 5 units from 0.

Consider the following problems.

As you know, the absolute value of a real number gives the <u>distance</u> 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.

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$$|x|=3$$

Consider the following problems.

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

$$|\mathbf{x}| = 3$$

$$|x| = 5$$

Consider the following problems.

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

$$| x | = 3$$

$$|x| = 5$$

$$|x| = 8$$

Consider the following problems.

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

Consider the following equations.

$$|x| = 3$$

$$|x| = 5$$

$$|x|=8$$

Consider the following problems.

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Consider the following equations.

$$|x|=3$$

$$|x| = 5$$

$$|x| = 8$$

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 $x =$

$$|x| = 5$$

$$|x| = 8$$

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Consider the following equations.

$$|x|=3$$

$$x = 3$$

$$|x| = 5$$

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Consider the following equations.

$$|x|=3$$
 $x=3$ or

$$| x | = 5$$

$$|x|=8$$

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Consider the following equations.

$$|\mathbf{x}| = 3$$

$$x = 3$$
 or $x =$

$$| x | = 5$$

$$|x| = 8$$

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

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

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$$|x|=8$$

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 $x = 5$ or

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Consider the following equations.

$$|x| = 3$$
 $|x| = 5$
 $x = 3$ or $x = -3$ $x = 5$ or $x = -5$

$$|x| = 5$$

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$$|x| = 8$$

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

$$|x| = 8$$

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Consider the following equations.

$$|x| = 3$$

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

$$|x| = 3$$
 $|x| = 5$
 $x = 3$ or $x = -3$ $x = 5$ or $x = -5$

$$|x|=8$$
 $x=8$ or

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 $|x| = 5$
 $x = 3$ or $x = -3$ $x = 5$ or $x = -5$

$$|x| = 8$$
 $x = 8$ or $x =$

Consider the following problems.

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Consider the following equations.

$$|x| = 3$$

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

$$|x| = 3$$
 $|x| = 5$ $|x| = 8$
 $x = 3 \text{ or } x = -3$ $x = 5 \text{ or } x = -5$ $x = 8 \text{ or } x = -8$

$$|x| = 8$$

 $x = 8$ or $x = -8$

$$|\mathbf{x}| = 3$$

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

$$|x| = 5$$

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

$$|x| = 8$$

$$x = 8$$
 or $x = -8$

$$|x| = 3$$

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

$$|x| = 5$$

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

$$|x| = 8$$

 $x = 8$ or $x = -8$

$$|x| = 3$$

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

$$|x| = 5$$

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

$$|x| = 8$$

 $x = 8$ or $x = -8$

$$\mathbf{If} \mid \mathbf{N} \mid = \mathbf{k}$$

$$|x| = 3$$

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

$$|x| = 5$$

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

$$|x| = 8$$

 $x = 8$ or $x = -8$

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

$$|x| = 3$$

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

$$|x| = 5$$

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

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

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

$$|x| = 3$$

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

$$|x| = 5$$

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

$$|x| = 8$$

 $x = 8$ or $x = -8$

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

$$|x| = 3$$

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

$$|x| = 5$$

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

$$|x| = 8$$

 $x = 8$ or $x = -8$

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$$|N| = k$$
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$$|x| = 3$$

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

$$|x| = 5$$

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

$$|x| = 8$$

 $x = 8$ or $x = -8$

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

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

1.
$$|x| = 5$$

2.
$$|x+1|=5$$

1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

Solving Absolute Value Equations

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

1.
$$|x| = 5$$

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1.
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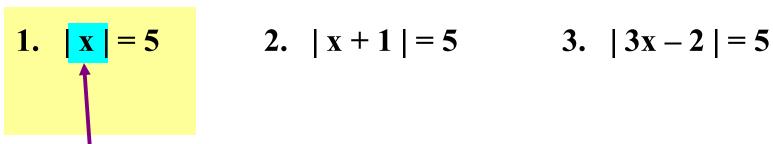
2.
$$|x+1|=5$$

1.
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 2. $|x+1| = 5$ 3. $|3x-2| = 5$

Step 1: Apply the rule to write 2 equations.

Solving Absolute Value Equations

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



2.
$$|x+1|=5$$

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

Step 1: Apply the rule to write 2 equations.

Solving Absolute Value Equations

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

1.
$$|\mathbf{x}| = 5$$
 $|\mathbf{x}| = 5$
 $|\mathbf{x}| = 1$
 $|\mathbf{x}| = 5$
 $|\mathbf{x}| = 5$
 $|\mathbf{x}| = 1$
 $|\mathbf{x}| = 1$
 $|\mathbf{x}| = 1$
 $|\mathbf{x}| = 1$

2.
$$|x+1|=5$$

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

Step 1: Apply the rule to write 2 equations.

Solving Absolute Value Equations

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

1.
$$|x| = 5$$

2.
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$$|\mathbf{x}| = 5$$
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Step 1: Apply the rule to write 2 equations.

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

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

1.
$$|x| = 5$$

 $\mathbf{x} =$

2.
$$|x+1|=5$$

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$$|\mathbf{x}| = 5$$
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x = 5 or

2.
$$|x+1|=5$$

1.
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$$|x| = 5$$

x = 5 or x =

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Step 1: Apply the rule to write 2 equations.

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1.
$$|x| = 5$$

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1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

Step 1: Apply the rule to write 2 equations.

Solving Absolute Value Equations

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

1.
$$|x| = 5$$

x = 5 or x = -5

2.
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 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

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1.
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 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

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

$$x + 1 =$$

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$$\mathbf{x}+\mathbf{1}=\mathbf{5}$$

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3.
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$$x = 5$$
 or $x = -5$ $x + 1 = 5$ or

$$x + 1 = 5 \quad or$$

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

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

Step 1: Apply the rule to write 2 equations.

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

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$$3x-2=$$

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

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

Step 1: Apply the rule to write 2 equations.

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

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

1.
$$|x| = 5$$

2.
$$|x+1|=5$$

1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

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

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

Step 1: Apply the rule to write 2 equations.

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 or $x = -5$

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 or $x + 1 = -5$

$$x = 5$$
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$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

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

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

Step 1: Apply the rule to write 2 equations. Step 2: Solve each equation.

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

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

1.
$$|x| = 5$$

2.
$$|x+1|=5$$

1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

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

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

1.
$$|x| = 5$$

2.
$$|x+1|=5$$

1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

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

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

1.
$$|x| = 5$$

2.
$$|x+1|=5$$

1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

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

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

1.
$$|x| = 5$$

2.
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1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

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

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

Step 1: Apply the rule to write 2 equations. Step 2: Solve each equation.

Solving Absolute Value Equations

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

1.
$$|x| = 5$$

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

2.
$$|x+1|=5$$

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

1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

1.
$$|x| = 5$$

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

2.
$$|x+1|=5$$

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

1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

1.
$$|x| = 5$$

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

2.
$$|x+1|=5$$

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

$$\mathbf{x} =$$

1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

1.
$$|x| = 5$$

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

2.
$$|x+1|=5$$

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

 $\mathbf{x} = \mathbf{4}$

1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

1.
$$|x| = 5$$

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

2.
$$|x+1|=5$$

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

1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

1.
$$|x| = 5$$

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

2.
$$|x+1|=5$$

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

1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

1.
$$|x| = 5$$

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

2.
$$|x+1|=5$$

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

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

1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

1.
$$|x| = 5$$

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

2.
$$|x+1|=5$$

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

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

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$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

1.
$$|x| = 5$$

2.
$$|x+1|=5$$

1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

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

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

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

Step 1: Apply the rule to write 2 equations. Step 2: Solve each equation.

Solving Absolute Value Equations

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

1.
$$|x| = 5$$

2.
$$|x+1|=5$$

1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

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

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

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

1.
$$|x| = 5$$

2.
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1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

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

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

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

1.
$$|x| = 5$$

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$$|x+1|=5$$

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$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

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

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

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

1.
$$|x| = 5$$

2.
$$|x+1|=5$$

1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

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

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

$$x = 5$$
 or $x = -5$ $x + 1 = 5$ or $x + 1 = -5$ $3x - 2 = 5$ or $3x - 2 = -5$ $3x = 7$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

1.
$$|x| = 5$$

2.
$$|x+1|=5$$

1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

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

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

$$x = 5$$
 or $x = -5$ $x + 1 = 5$ or $x + 1 = -5$ $3x - 2 = 5$ or $3x - 2 = -5$ $3x = 7$

$$\mathbf{x} =$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

1.
$$|x| = 5$$

1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

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

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

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

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

$$3x = 7$$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

1.
$$|x| = 5$$

2.
$$|x+1|=5$$

1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

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

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

$$3x-2=5$$
 or $3x-2=-5$
 $3x=7$ $3x=$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

1.
$$|x| = 5$$

2.
$$|x+1|=5$$

$$v + 1 - 5$$
 or $v + 1 - 5$

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

1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

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

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

1.
$$|x| = 5$$

2.
$$|x+1|=5$$

1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

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

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

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

$$3x = 7 \qquad 3x = -3$$

$$3x = -3$$

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

$$\mathbf{x} =$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

1.
$$|x| = 5$$

2.
$$|x+1|=5$$

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

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

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

1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

$$3x = 7 \qquad 3x = -3$$

$$3x = -3$$

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

$$x = -1$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

1.
$$|x| = 5$$

2.
$$|x+1|=5$$

1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

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

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

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

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

$$3x = -3$$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

1.
$$|x| = 5$$

2.
$$|x+1|=5$$

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

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

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

1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

$$3x = 7 \qquad 3x = -3$$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

1.
$$|x| = 5$$

2.
$$|x+1|=5$$

1.
$$|x| = 5$$
 2. $|x+1| = 5$ 3. $|3x-2| = 5$

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

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

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

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

$$3x = 7 \qquad 3x = -3$$

$$3x = -3$$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

4.
$$|x| = 7$$

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

4.
$$|x| = 7$$

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

4.
$$|\mathbf{x}| = 7$$
 5. $|\mathbf{x} - 3| = 7$ 6. $|5\mathbf{x} + 4| = 7$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

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

4.
$$|\mathbf{x}| = 7$$
 5. $|\mathbf{x} - 3| = 7$ 6. $|5\mathbf{x} + 4| = 7$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

4.
$$|x| = 7$$

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

4.
$$|\mathbf{x}| = 7$$
 5. $|\mathbf{x} - 3| = 7$ 6. $|5\mathbf{x} + 4| = 7$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

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

4.
$$|\mathbf{x}| = 7$$
 5. $|\mathbf{x} - 3| = 7$ 6. $|5\mathbf{x} + 4| = 7$

$$\mathbf{x} =$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

 $\mathbf{x} = 7$

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

4.
$$|\mathbf{x}| = 7$$
 5. $|\mathbf{x} - 3| = 7$ 6. $|5\mathbf{x} + 4| = 7$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

x = 7 or

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

4.
$$|\mathbf{x}| = 7$$
 5. $|\mathbf{x} - 3| = 7$ 6. $|5\mathbf{x} + 4| = 7$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

x = 7 or x =

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

4.
$$|\mathbf{x}| = 7$$
 5. $|\mathbf{x} - 3| = 7$ 6. $|5\mathbf{x} + 4| = 7$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

x = 7 or x = -7

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

4.
$$|\mathbf{x}| = 7$$
 5. $|\mathbf{x} - 3| = 7$ 6. $|5\mathbf{x} + 4| = 7$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

x = 7 or x = -7

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

4.
$$|\mathbf{x}| = 7$$
 5. $|\mathbf{x} - 3| = 7$ 6. $|5\mathbf{x} + 4| = 7$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

4.
$$|x| = 7$$

x = 7 or x = -7

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

4.
$$|\mathbf{x}| = 7$$
 5. $|\mathbf{x} - 3| = 7$ 6. $|5\mathbf{x} + 4| = 7$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

4.
$$|x| = 7$$

x = 7 or x = -7

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

4.
$$|\mathbf{x}| = 7$$
 5. $|\mathbf{x} - 3| = 7$ 6. $|5\mathbf{x} + 4| = 7$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

4.
$$|x| = 7$$

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

4.
$$|x| = 7$$

x = 7 or x = -7

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

Step 1: Apply the rule to write 2 equations. Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

x = 7 or x = -7

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

4.
$$|x| = 7$$

x = 7 or x = -7

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

$$x = 7 \text{ or } x = -7$$
 $x - 3 =$

$$x-3=$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

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

$$x - 3 = 7$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

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

$$x - 3 = 7 \quad \text{or} \quad$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

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

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

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

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

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

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

Step 1: Apply the rule to write 2 equations. Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

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

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

4.
$$|x| = 7$$

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

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

$$\mathbf{x} =$$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

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

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

$$x = 10$$

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

$$x = 7 \text{ or } x = -7$$

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

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

$$x = 10$$
 or

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

$$x = 7 \text{ or } x = -7$$

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

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

$$x = 10 \text{ or } x =$$

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

$$x = 7 \text{ or } x = -7$$

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

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

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

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

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

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

$$x = 10 \text{ or } x = -4$$

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

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

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

$$x = 10 \text{ or } x = -4$$

Step 1: Apply the rule to write 2 equations. Step 2: Solve each equation.

Solving Absolute Value Equations

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

4.
$$|x| = 7$$

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

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

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

$$x = 10 \text{ or } x = -4$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

4.
$$|x| = 7$$

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

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

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

$$x = 10 \text{ or } x = -4$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

4.
$$|x| = 7$$

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

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

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

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

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

$$x = 7$$
 or $x = -7$ $x - 3 = 7$ or $x - 3 = -7$ $5x + 4 =$

$$x = 10 \text{ or } x = -4$$

$$5x + 4 =$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

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

$$x = 7$$
 or $x = -7$ $x - 3 = 7$ or $x - 3 = -7$ $5x + 4 = 7$

$$x = 10 \text{ or } x = -4$$

$$5x + 4 = 7$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

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

$$x = 7$$
 or $x = -7$ $x - 3 = 7$ or $x - 3 = -7$ $5x + 4 = 7$ or

$$x = 10 \text{ or } x = -4$$

$$5x + 4 = 7 \quad or$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

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

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

$$x = 10 \text{ or } x = -4$$

$$x = 7$$
 or $x = -7$ $x - 3 = 7$ or $x - 3 = -7$ $5x + 4 = 7$ or $5x + 4 = 7$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

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

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

$$x = 10 \text{ or } x = -4$$

$$x = 7$$
 or $x = -7$ $x - 3 = 7$ or $x - 3 = -7$ $5x + 4 = 7$ or $5x + 4 = -7$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

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

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

$$x = 10 \text{ or } x = -4$$

$$x = 7$$
 or $x = -7$ $x - 3 = 7$ or $x - 3 = -7$ $5x + 4 = 7$ or $5x + 4 = -7$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

4.
$$|x| = 7$$

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

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

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

$$x = 10 \text{ or } x = -4$$

$$x = 7$$
 or $x = -7$ $x - 3 = 7$ or $x - 3 = -7$ $5x + 4 = 7$ or $5x + 4 = -7$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

4.
$$|x| = 7$$

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

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

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

$$x = 10 \text{ or } x = -4$$

$$x = 7$$
 or $x = -7$ $x = 3 = 7$ or $x = 3 = -7$ $5x + 4 = 7$ or $5x + 4 = -7$ $5x = 4$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

4.
$$|x| = 7$$

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

5x = 3

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

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

$$x = 10 \text{ or } x = -4$$

$$x = 7$$
 or $x = -7$ $x - 3 = 7$ or $x - 3 = -7$ $5x + 4 = 7$ or $5x + 4 = -7$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

4.
$$|x| = 7$$

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

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

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

$$x = 10 \text{ or } x = -4$$

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

$$x = 7$$
 or $x = -7$ $x - 3 = 7$ or $x - 3 = -7$ $5x + 4 = 7$ or $5x + 4 = -7$

$$5x = 3$$

$$\mathbf{x} =$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

4.
$$|x| = 7$$

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

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

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

$$x = 10 \text{ or } x = -4$$

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

$$x = 7$$
 or $x = -7$ $x - 3 = 7$ or $x - 3 = -7$ $5x + 4 = 7$ or $5x + 4 = -7$

$$5x = 3$$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

4.
$$|x| = 7$$

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

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

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

$$x = 10 \text{ or } x = -4$$

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

$$x = 7$$
 or $x = -7$ $x - 3 = 7$ or $x - 3 = -7$ $5x + 4 = 7$ or $5x + 4 = -7$

$$5x = 3 \qquad 5x =$$

$$5x =$$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

4.
$$|x| = 7$$

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

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

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

$$x = 10 \text{ or } x = -4$$

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

$$x = 7$$
 or $x = -7$ $x - 3 = 7$ or $x - 3 = -7$ $5x + 4 = 7$ or $5x + 4 = -7$

$$5x = 3$$

$$5x = 3$$
 $5x = -11$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

4.
$$|x| = 7$$

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

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

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

$$x = 10 \text{ or } x = -4$$

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

$$x = 7$$
 or $x = -7$ $x - 3 = 7$ or $x - 3 = -7$ $5x + 4 = 7$ or $5x + 4 = -7$

$$5x = 3$$

$$5x = 3$$
 $5x = -11$

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

$$\mathbf{x} =$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

4.
$$|x| = 7$$

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

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

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

$$x = 10 \text{ or } x = -4$$

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

$$x = 7$$
 or $x = -7$ $x - 3 = 7$ or $x - 3 = -7$ $5x + 4 = 7$ or $5x + 4 = -7$

$$5x = 3$$

$$5x = 3$$
 $5x = -11$

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

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

4.
$$|x| = 7$$

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

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

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

$$x = 10 \text{ or } x = -4$$

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

$$x = 7$$
 or $x = -7$ $x - 3 = 7$ or $x - 3 = -7$ $5x + 4 = 7$ or $5x + 4 = -7$

$$5x = 3$$

$$5x = 3$$
 $5x = -11$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

4.
$$|x| = 7$$

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

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

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

$$x = 10 \text{ or } x = -4$$

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

$$x = 7$$
 or $x = -7$ $x - 3 = 7$ or $x - 3 = -7$ $5x + 4 = 7$ or $5x + 4 = -7$

$$5x = 3$$

$$5x = 3$$
 $5x = -11$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

4.
$$|x| = 7$$

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

4.
$$|x| = 7$$
 5. $|x-3| = 7$ 6. $|5x+4| = 7$

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

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

$$x = 10 \text{ or } x = -4$$
 $5x = 3$ $5x = -11$

$$x = 7$$
 or $x = -7$ $x - 3 = 7$ or $x - 3 = -7$ $5x + 4 = 7$ 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

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

7.
$$|3x-4|=5$$
 8. $|2x+1|=3$ 9. $|4x-3|=1$

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

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

7.
$$|3x-4|=5$$
 8. $|2x+1|=3$ 9. $|4x-3|=1$

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

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

7.
$$|3x-4|=5$$
 8. $|2x+1|=3$ 9. $|4x-3|=1$

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

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

7.
$$|3x-4|=5$$
 8. $|2x+1|=3$ 9. $|4x-3|=1$

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

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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3x - 4 =

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3x - 4 = 5

8.
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Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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$$3x =$$

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

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$$3x = 9$$

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$$3x = 9$$

$$x = 3$$

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Step 2: Solve each equation.

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$$3x - 4 = 5$$
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$$3x = -1$$

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

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$$3x = 9 3x = -1$$

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

$$3x = 9 3x = -1$$

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

$$2x + 1 = 3$$
 or

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

$$3x = 9 3x = -1$$

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

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

$$3x = 9 3x = -1$$

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

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

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

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

$$3x = 9$$
 $3x = -1$

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

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

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Step 2: Solve each equation.

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$$|3x-4|=5$$
 8. $|2x+1|=3$ 9. $|4x-3|=1$

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

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

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

$$3x = 9$$
 $3x = -1$ $2x = -1$

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

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

$$2x =$$

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Step 2: Solve each equation.

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

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

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

$$3x = 9$$
 $3x = -1$ $2x = 2$

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

$$2x = 2$$

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Step 2: Solve each equation.

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

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

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

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

$$3x = 9$$
 $3x = -1$ $2x = 2$

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

$$2y \pm 1 - 2$$
 or $2y \pm 1 - 2$

$$2x = 2$$

$$\mathbf{x} =$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

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

$$3x = 9$$
 $3x = -1$ $2x = 2$

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

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Step 1: Apply the rule to write 2 equations.

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

$$3x = -1$$

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

$$2v \pm 1 - 2$$
 on $2v \pm 1 - 2$

$$3x = 9$$
 $3x = -1$ $2x = 2$ $2x = 2$

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

$$3x = 9 3x = -1$$

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

$$2x + 1 = 2$$
 on $2x + 1 = 2$

$$3x = 9$$
 $3x = -1$ $2x = 2$ $2x = -4$

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Step 1: Apply the rule to write 2 equations.

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

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

$$3x = -1$$

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

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

$$3x = 9$$
 $3x = -1$ $2x = 2$ $2x = -4$

$$x = 1$$
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Step 1: Apply the rule to write 2 equations.

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$$x = 3$$
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$$2x = 2$$

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$$x = 3$$
 or $x = -\frac{1}{3}$ $x = 1$ or $x = -2$

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

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

$$2x = 2 \qquad 2x$$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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$$|3x-4|=5$$
 8. $|2x+1|=3$ 9. $|4x-3|=1$

$$3x = 9$$
 $3x = -1$ $2x = 2$ $2x = -4$

$$x = 3$$
 or $x = -\frac{1}{3}$ $x = 1$ or $x = -2$

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

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

$$2x = 2$$

$$2x = -4$$

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

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

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

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

$$3x = 9$$

$$3x = -1$$

$$2x = 2$$

$$3x = 9$$
 $3x = -1$ $2x = 2$ $2x = -4$

$$x = 3$$
 or $x = -\frac{1}{3}$ $x = 1$ or $x = -2$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

7.
$$|3x-4|=5$$
 8. $|2x+1|=3$ 9. $|4x-3|=1$

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

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

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

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

$$4x - 3 =$$

$$3x = 9$$

$$3x = -1$$

$$2\mathbf{x}=2$$

$$3x = 9$$
 $3x = -1$ $2x = 2$ $2x = -4$

$$x = 3$$
 or $x = -\frac{1}{3}$ $x = 1$ or $x = -2$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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$$|3x-4|=5$$
 8. $|2x+1|=3$ 9. $|4x-3|=1$

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

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

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

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

$$4x - 3 = 1$$

$$3x = 9$$

$$3x = -1$$

$$2\mathbf{x}=2$$

$$3x = 9$$
 $3x = -1$ $2x = 2$ $2x = -4$

$$x = 3$$
 or $x = -\frac{1}{3}$ $x = 1$ or $x = -2$

$$x = 1$$
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Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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$$|3x-4|=5$$
 8. $|2x+1|=3$ 9. $|4x-3|=1$

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

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

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

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

$$4x - 3 = 1$$
 or

$$3x = 9$$

$$3x = -1$$

$$2x = 2$$

$$3x = 9$$
 $3x = -1$ $2x = 2$ $2x = -4$

$$x = 3$$
 or $x = -\frac{1}{3}$ $x = 1$ or $x = -2$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

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

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

$$4x - 3 = 1$$
 or $4x - 3 =$

$$3x = 9$$

$$3x = -1$$

$$2x = 2$$

$$3x = 9$$
 $3x = -1$ $2x = 2$ $2x = -4$

$$x = 3$$
 or $x = -\frac{1}{3}$ $x = 1$ or $x = -2$

$$x = 1$$
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Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

7.
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 8. $|2x+1|=3$ 9. $|4x-3|=1$

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

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

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

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

$$4x - 3 = 1$$
 or $4x - 3 = -1$

$$3x = 9$$

$$3x = -1$$

$$2\mathbf{x}=2$$

$$3x = 9$$
 $3x = -1$ $2x = 2$ $2x = -4$

$$x = 3$$
 or $x = -\frac{1}{3}$ $x = 1$ or $x = -2$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

7.
$$|3x-4|=5$$
 8. $|2x+1|=3$ 9. $|4x-3|=1$

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

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

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

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

$$4x - 3 = 1$$
 or $4x - 3 = -1$

$$3x = 9$$

$$3x = -1$$

$$2x = 2$$

$$3x = 9$$
 $3x = -1$ $2x = 2$ $2x = -4$

$$x = 3$$
 or $x = -\frac{1}{3}$ $x = 1$ or $x = -2$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

7.
$$|3x-4|=5$$
 8. $|2x+1|=3$ 9. $|4x-3|=1$

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

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

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

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

$$4x - 3 = 1$$
 or $4x - 3 = -1$

$$3x = 9$$

$$3x = -1$$

$$2x = 2$$

$$3x = 9$$
 $3x = -1$ $2x = 2$ $2x = -4$

$$x = 3$$
 or $x = -\frac{1}{3}$ $x = 1$ or $x = -2$

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Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

7.
$$|3x-4|=5$$
 8. $|2x+1|=3$ 9. $|4x-3|=1$

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

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

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

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

$$3x = 9$$

$$3x = -1$$

$$2x = 2$$

$$3x = 9$$
 $3x = -1$ $2x = 2$ $2x = -4$ $4x = -4$

$$x = 3$$
 or $x = -\frac{1}{3}$ $x = 1$ or $x = -2$

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

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

$$4x =$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

7.
$$|3x-4|=5$$
 8. $|2x+1|=3$ 9. $|4x-3|=1$

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

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

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

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

$$3x = 9$$

$$3x = -1$$

$$2x = 2$$

$$3x = 9$$
 $3x = -1$ $2x = 2$ $2x = -4$ $4x = 4$

$$4x = 4$$

$$x = 3$$
 or $x = -\frac{1}{3}$ $x = 1$ or $x = -2$

$$x = 1 \quad or \quad x = -2$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

7.
$$|3x-4|=5$$
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8.
$$|2x+1|=3$$

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

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

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

$$3x = 9$$

$$3x = -1$$

$$2x = 2$$

$$3x = 9$$
 $3x = -1$ $2x = 2$ $2x = -4$ $4x = 4$

$$x = 3$$
 or $x = -\frac{1}{3}$ $x = 1$ or $x = -2$

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

$$4x - 3 = 1$$
 or $4x - 3 = -3$

$$4x = 4$$

$$\mathbf{x} =$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

7.
$$|3x-4|=5$$
 8. $|2x+1|=3$ 9. $|4x-3|=1$

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

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

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

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

$$3x = 9$$

$$3x = -1$$

$$2x = 2$$

$$3x = 9$$
 $3x = -1$ $2x = 2$ $2x = -4$ $4x = 4$

$$x = 3$$
 or $x = -\frac{1}{3}$ $x = 1$ or $x = -2$ $x = 1$

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

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

$$4x = 4$$

$$x = 1$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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$$|3x-4|=5$$
 8. $|2x+1|=3$ 9. $|4x-3|=1$

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

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

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

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

$$3x = 9$$

$$3x = -1$$

$$2x = 2$$

$$3x = 9$$
 $3x = -1$ $2x = 2$ $2x = -4$ $4x = 4$ $4x = 4$

$$x = 3$$
 or $x = -\frac{1}{3}$ $x = 1$ or $x = -2$ $x = 1$

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

$$4x - 3 = 1$$
 or $4x - 3 = -3$

$$4x = 4$$

$$4x =$$

$$x = 1$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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$$|3x-4|=5$$
 8. $|2x+1|=3$ 9. $|4x-3|=1$

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

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

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

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

$$3x = 9$$

$$3x = -1$$

$$2x = 2$$

$$3x = 9$$
 $3x = -1$ $2x = 2$ $2x = -4$ $4x = 4$ $4x = 2$

$$x = 3$$
 or $x = -\frac{1}{3}$ $x = 1$ or $x = -2$ $x = 1$

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

$$4x - 3 = 1$$
 or $4x - 3 = -1$

$$4x = 4$$

$$4x = 2$$

$$x = 1$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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$$|3x-4|=5$$
 8. $|2x+1|=3$ 9. $|4x-3|=1$

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

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

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

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

$$3x = 9$$

$$3x = -1$$

$$2x = 2$$

$$3x = 9$$
 $3x = -1$ $2x = 2$ $2x = -4$ $4x = 4$ $4x = 2$

$$x = 3$$
 or $x = -\frac{1}{3}$ $x = 1$ or $x = -2$ $x = 1$ $x = 1$

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

$$4x - 3 = 1$$
 or $4x - 3 = -1$

$$4x = 4$$

$$4x = 2$$

$$x = 1$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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$$|3x-4|=5$$
 8. $|2x+1|=3$ 9. $|4x-3|=1$

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

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

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

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

$$3x = 9$$

$$3x = -1$$

$$2x = 2$$

$$3x = 9$$
 $3x = -1$ $2x = 2$ $2x = -4$ $4x = 4$ $4x = 2$

$$x = 3$$
 or $x = -\frac{1}{3}$ $x = 1$ or $x = -2$ $x = 1$ $x = \frac{1}{2}$

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

$$4x - 3 = 1$$
 or $4x - 3 = -1$

$$4x = 4$$

$$4x = 2$$

$$x = 1$$

$$x = \frac{1}{2}$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

7.
$$|3x-4|=5$$
 8. $|2x+1|=3$ 9. $|4x-3|=1$

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

$$\mathbf{v} = 1$$
 or $\mathbf{v} = -2$

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

$$3x = 9$$
 $3x = -1$ $2x = 2$ $2x = -4$ $4x = 4$ $4x = 2$

$$4x = 2$$

$$x = 3$$
 or $x = -\frac{1}{3}$ $x = 1$ or $x = -2$ $x = 1$ or $x = \frac{1}{2}$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

7.
$$|3x-4|=5$$
 8. $|2x+1|=3$ 9. $|4x-3|=1$

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

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

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

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

$$3x = 9$$

$$3x = -1$$

$$2x = 2$$

$$3x = 9$$
 $3x = -1$ $2x = 2$ $2x = -4$ $4x = 4$ $4x = 2$

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

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

$$4x - 3 = 1$$
 or $4x - 3 = -1$

$$4x = 4$$

$$4x = 2$$

$$x = 3$$
 or $x = -\frac{1}{3}$ $x = 1$ or $x = -2$ $x = 1$ or $x = \frac{1}{2}$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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$$|3x-4|=5$$
 8. $|2x+1|=3$ 9. $|4x-3|=1$

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

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

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

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

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

$$3x = 9$$

$$3x = -1$$

$$2x = 2$$

$$3x = 9$$
 $3x = -1$ $2x = 2$ $2x = -4$ $4x = 4$ $4x = 2$

$$4x = 4$$

$$4x = 2$$

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

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

$$x = 3$$
 or $x = \frac{-1}{3}$ $x = 1$ or $x = -2$ $x = 1$ or $x = \frac{1}{2}$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

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

5x + 2 =

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

If
$$|N| = k$$
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$$|5x + 2| = 3$$

5x + 2 = 3

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

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

5x + 2 = 3 or

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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 =

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

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

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

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

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

5x + 2 = 3 or 5x + 2 = -3

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

5x + 2 = 3 or 5x + 2 = -3

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

$$5x =$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

$$5x = 1$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

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

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

 $5x + 2 = 3$ or $5x + 2 = -3$
 $5x = 1$
 $x = \frac{1}{5}$

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

 $5x + 2 = 3$ or $5x + 2 = -3$
 $5x = 1$ $5x =$
 $x = \frac{1}{5}$

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

 $5x + 2 = 3$ or $5x + 2 = -3$
 $5x = 1$ $5x = -5$
 $x = \frac{1}{5}$

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

$$5x = 1 \qquad 5x = -5$$

$$x = \frac{1}{5} \qquad x =$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

$$5x = 1 \qquad 5x = -5$$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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 $|5x + 2| = -3$

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

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

$$5x = 1 \qquad 5x = -5$$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

$$5x = 1 \qquad 5x = -5$$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

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$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

$$5x = 1$$
 $5x = -5$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

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$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

$$5x = 1$$
 $5x = -5$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

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$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

$$5x = 1$$
 $5x = -5$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

$$5x = 1$$
 $5x = -5$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

$$5x + 2 = 3$$
 or $5x + 2 = -3$ $6x - 3 =$

$$5x = 1$$
 $5x = -5$

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

Step 2: Solve each equation.

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

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

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

$$5x = 1$$
 $5x = -5$

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

$$6x - 3 = 15$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

$$5x = 1$$
 $5x = -5$

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

$$6x - 3 = 15$$
 or

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

$$5x = 1$$
 $5x = -5$

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

$$6x - 3 = 15$$
 or $6x - 3 =$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

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

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$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

$$5x = 1$$
 $5x = -5$

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

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

$$5x = 1$$
 $5x = -5$

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

$$0x - 3 - 15$$
 or $0x - 3 - -15$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

$$5x = 1$$
 $5x = -5$

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

$$6x - 3 = 15$$
 or $6x - 3 = -15$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

$$5x = 1$$
 $5x = -5$ $6x =$

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

$$5x + 2 = 3$$
 or $5x + 2 = -3$ $6x - 3 = 15$ or $6x - 3 = -15$
 $5x = 1$ $5x = -5$ $6x = -5$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

$$5x = 1$$
 $5x = -5$ $6x = 18$

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

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

$$5x = 1$$
 $5x = -5$ $6x = 18$

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

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

$$6x = 18$$

$$\mathbf{x} =$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

$$5x = 1$$
 $5x = -5$ $6x = 18$

$$x = \frac{1}{5}$$
 or $x = -1$ $x = 3$

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

$$6x = 18$$

$$x = 3$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

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$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

$$5x = 1$$
 $5x = -5$ $6x = 18$ $6x = 1$

$$x = \frac{1}{5}$$
 or $x = -1$ $x = 3$

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

$$6x = 18 \qquad 6x =$$

$$x = 3$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

$$5x = 1 \qquad 5x = -5$$

$$x = \frac{1}{5}$$
 or $x = -1$ $x = 3$

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

$$5x = 1$$
 $5x = -5$ $6x = 18$ $6x = -12$

$$x = 3$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

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$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

$$5x = 1 \qquad 5x = -5$$

$$x = \frac{1}{5}$$
 or $x = -1$ $x = 3$ $x = 3$

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

$$5x = 1$$
 $5x = -5$ $6x = 18$ $6x = -12$

$$x = 3$$
 $x = 3$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

$$5x = 1 \qquad 5x = -5$$

$$x = \frac{1}{5}$$
 or $x = -1$ $x = 3$ $x = -2$

$$6y = 2 - 15$$
 or $6y = 2 - 15$

$$5x = 1$$
 $5x = -5$ $6x = 18$ $6x = -12$

$$z = 3$$

$$x = -2$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

$$5x = 1 5x = -5$$

$$x = \frac{1}{5}$$
 or $x = -1$ $x = 3$ or $x = -2$

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

$$5x = 1$$
 $5x = -5$ $6x = 18$ $6x = -12$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

10.
$$|5x + 2| = 3$$
 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

$$|1. | 6x - 3| = 15$$

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

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

$$5x = 1$$
 $5x = -5$ $6x = 18$ $6x = -12$

$$x = \frac{1}{5}$$
 or $x = -1$ $x = 3$ or $x = -2$

$$6y = 2 - 15$$
 or $6y = 2 - 15$

$$6x = 18$$

$$6x = -12$$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

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

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

$$5x = 1$$

$$5x = -5$$

$$6x = 18$$

$$5x = 1$$
 $5x = -5$ $6x = 18$ $6x = -12$

$$x = \frac{1}{5}$$
 or $x = -1$ $x = 3$ or $x = -2$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

$$5x = 1$$

$$5x = -5$$

$$6x = 18$$

$$5x = 1$$
 $5x = -5$ $6x = 18$ $6x = -12$

$$x = \frac{1}{5}$$
 or $x = -1$ $x = 3$ or $x = -2$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

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

$$5x = 1$$

$$5x = -5$$

$$6x = 18$$

$$5x = 1$$
 $5x = -5$ $6x = 18$ $6x = -12$

$$x = \frac{1}{5}$$
 or $x = -1$ $x = 3$ or $x = -2$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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 $6x - 3 = -15$

$$5x = 1$$

$$5x = -5$$

$$6x = 18$$

$$5x = 1$$
 $5x = -5$ $6x = 18$ $6x = -12$

$$x = \frac{1}{5}$$
 or $x = -1$ $x = 3$ or $x = -2$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

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

$$5x = 1$$

$$5x = -5$$

$$6x = 18$$

$$5x = 1$$
 $5x = -5$ $6x = 18$ $6x = -12$

$$x = \frac{1}{5}$$
 or $x = -1$ $x = 3$ or $x = -2$

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

$$3X + 7 =$$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

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

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

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

$$5x = 1$$

$$5x = -5$$

$$6x = 18$$

$$5x = 1$$
 $5x = -5$ $6x = 18$ $6x = -12$

$$x = \frac{1}{5}$$
 or $x = -1$ $x = 3$ or $x = -2$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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

$$5x = 1$$

$$5x = -5$$

$$6x = 18$$

$$5x = 1$$
 $5x = -5$ $6x = 18$ $6x = -12$

$$x = \frac{1}{5}$$
 or $x = -1$ $x = 3$ or $x = -2$

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

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

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

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

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 11. $|6x - 3| = 15$ 12. $|3x + 7| = 4$

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

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

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

$$5x = 1$$

$$5x = -5$$

$$6x = 18$$

$$5x = 1$$
 $5x = -5$ $6x = 18$ $6x = -12$

$$x = \frac{1}{5}$$
 or $x = -1$ $x = 3$ or $x = -2$

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

$$3x + 7 = 4$$
 or $3x + 7 =$

Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

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

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Solving Absolute Value Equations

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

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Step 1: Apply the rule to write 2 equations.

Step 2: Solve each equation.

Solving Absolute Value Equations

Solve the inequality and graph the solution set.





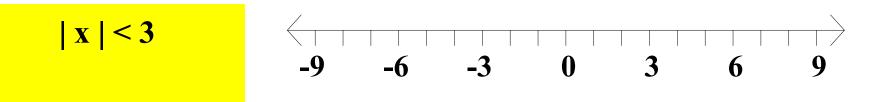
Solve the inequality and graph the solution set.





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

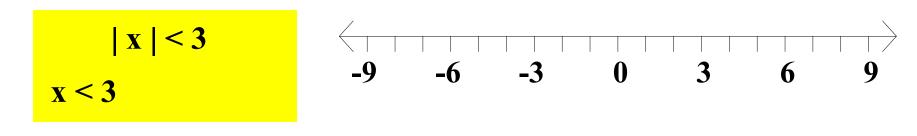
Solve the inequality and graph the solution set.



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

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

Solve the inequality and graph the solution set.



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

x must be less than 3

Solve the inequality and graph the solution set.



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x must be less than 3 and

Solve the inequality and graph the solution set.

$$|x| < 3$$

 $x < 3$ and $x > -3$



The absolute value of a real number gives the <u>distance</u> 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.

Solve the inequality and graph the solution set.

$$|x| < 3$$

 $x < 3$ and $x > -3$



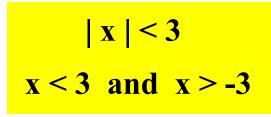
The absolute value of a real number gives the <u>distance</u> that number is from 0 on the real number line.

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.

Solve the inequality and graph the solution set.





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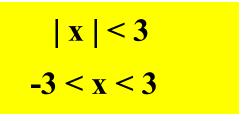
Clearly, any solution must be less than 3 units from 0.

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$$-3 < x < 3$$

Solve the inequality and graph the solution set.





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Solve the inequality and graph the solution set.

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 $-3 < x < 3$



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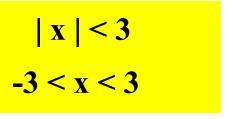
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The graph looks like this.

Solve the inequality and graph the solution set.





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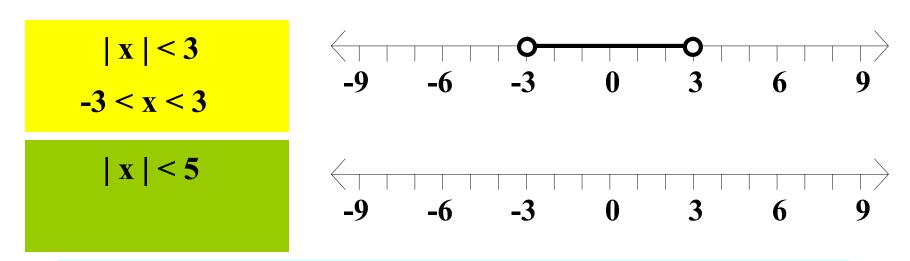
Solve the inequality and graph the solution set.

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



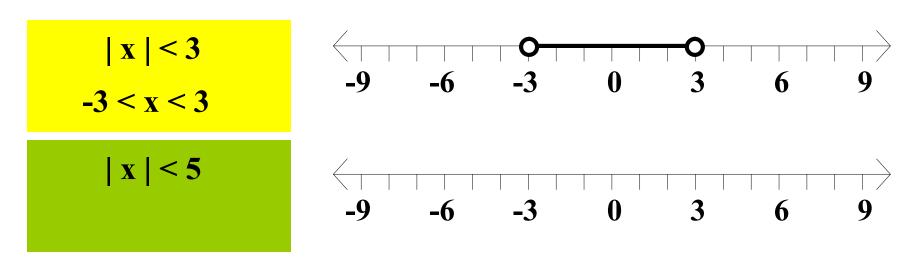


Solve the inequality and graph the solution set.



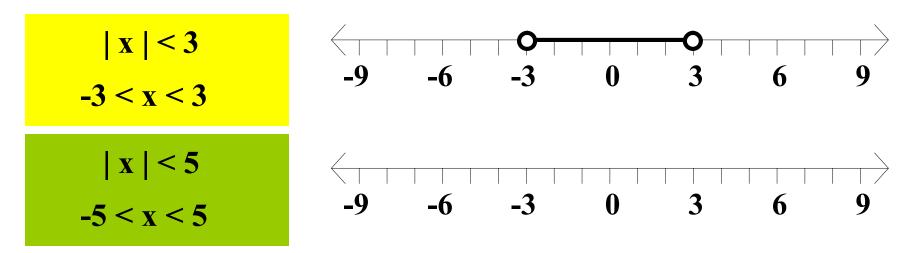
This time, any solution must be less than 5 units from 0.

Solve the inequality and graph the solution set.



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

Solve the inequality and graph the solution set.

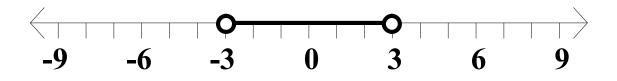


This time, any solution must be less than 5 units from 0. Once again, a continued inequality is used.

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.

Solve the inequality and graph the solution set.

$$|x| < 3$$
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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.

Solve the inequality and graph the solution set.

$$-3 < x < 3$$

$$-5 < x < 5$$

$$|x| \leq 8$$







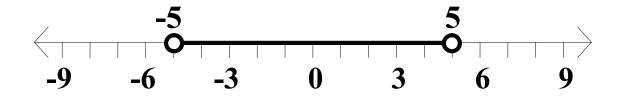
Solve the inequality and graph the solution set.

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 $-3 < x < 3$

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

$$|x| \leq 8$$







This time, the 'endpoints' are included.

Solve the inequality and graph the solution set.

$$|x| < 3$$
 $-3 < x < 3$
 -9
 -6
 -3
 0
 3





This time, the 'endpoints' are included.

Solve the inequality and graph the solution set.

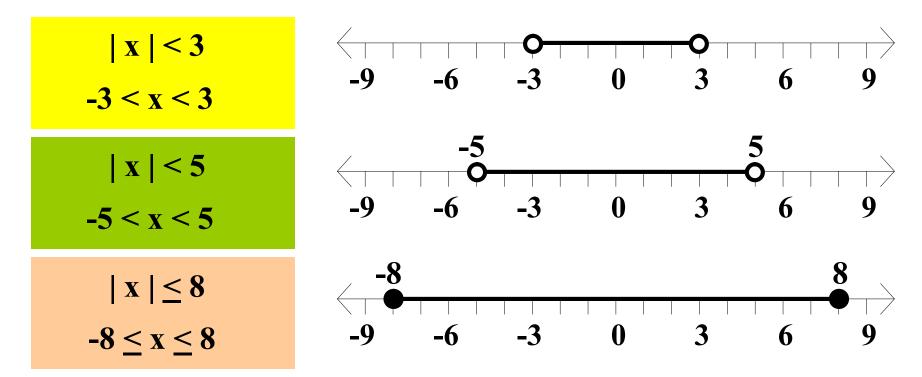
$$|x| < 3$$
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 3

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This time, the 'endpoints' are included.

Solve the inequality and graph the solution set.



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

Solve the inequality and graph the solution set.

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

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



$$|x| \le 8$$
$$-8 \le x \le 8$$



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

If
$$|N| \le k$$

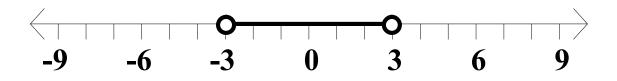
Solve the inequality and graph the solution set.

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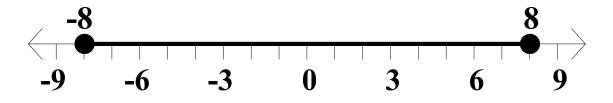
$$-5 < x < 5$$

$$|x| \leq 8$$

$$-8 \le x \le 8$$







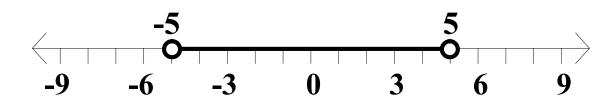
Here is the rule that is used to solve inequalities similar to these.

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

Solve the inequality and graph the solution set.

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 $-3 < x < 3$

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 $-5 < x < 5$



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

If
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This is important !!

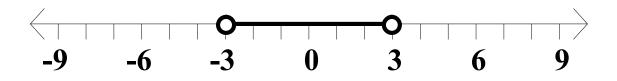
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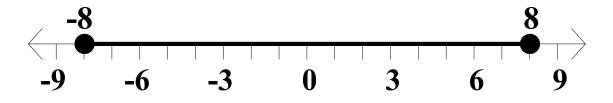
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$$-8 \le x \le 8$$







If
$$|N| < k$$
 and $k > 0$,

Solve the inequality and graph the solution set.

$$|x| < 3$$
 $-3 < x < 3$

$$|x| < 5$$

$$-5 < x < 5$$

$$|x| \le 8$$

$$-8 \le x \le 8$$







Here is the rule that is used to solve inequalities similar to these.

If |N| < k and k > 0, then -k < N < k.

Solve the inequality and graph the solution set.

$$|x| < 3$$
 $-3 < x < 3$



$$|x| < 5$$
 $-5 < x < 5$







If
$$|N| < k$$
 and $k > 0$, then $-k < N < k$.

If
$$|N| \leq k$$

Solve the inequality and graph the solution set.

$$|x| < 3$$
 $-3 < x < 3$

$$|x| < 5$$
 $-5 < x < 5$







If
$$|N| < k$$
 and $k > 0$, then $-k < N < k$.

If
$$|N| \le k$$
 and $k > 0$,

Solve the inequality and graph the solution set.

$$|x| < 3$$
 $-3 < x < 3$

$$|x| < 5$$
 $-5 < x < 5$



$$|x| \le 8$$

$$-8 < x < 8$$



If
$$|N| < k$$
 and $k > 0$, then $-k < N < k$.

If
$$|N| \le k$$
 and $k > 0$, then $-k \le N \le k$.

Solve the inequality and graph the solution set.

$$-3 < x < 3$$

$$-5 < x < 5$$

$$-8 < x < 8$$







If
$$|N| < k$$
 and $k > 0$, then $-k < N < k$.

If
$$|N| \le k$$
 and $k > 0$, then $-k \le N \le k$.

Solve the inequality and graph the solution set.

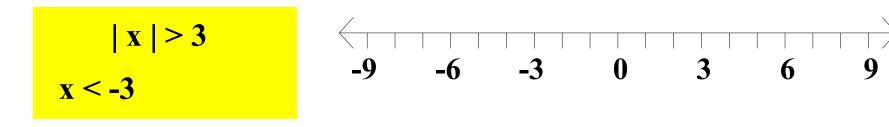




Solve the inequality and graph the solution set.

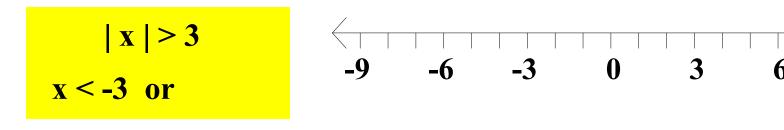


Solve the inequality and graph the solution set.



This time, any solution must be more than 3 units from 0. x must be less than -3

Solve the inequality and graph the solution set.



This time, any solution must be more than 3 units from 0. x must be less than -3 or

Solve the inequality and graph the solution set.

$$|x| > 3$$

 $x < -3$ 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.

Solve the inequality and graph the solution set.

$$|x| > 3$$

 $x < -3$ or $x > 3$



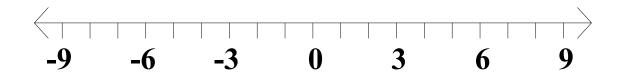
This time, any solution must be more than 3 units from 0. x must be less than -3 or greater than 3.

The solution cannot be represented using a continued inequality.

Solve the inequality and graph the solution set.

$$|x| > 3$$

 $x < -3$ 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.

Solve the inequality and graph the solution set.

$$|x| > 3$$

 $x < -3$ 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.

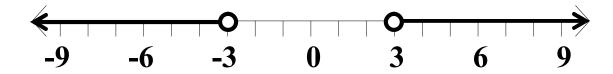
The solution cannot be represented using a continued inequality.

The graph looks like this.

Solve the inequality and graph the solution set.

$$|x| > 3$$

 $x < -3$ or $x > 3$



Solve the inequality and graph the solution set.

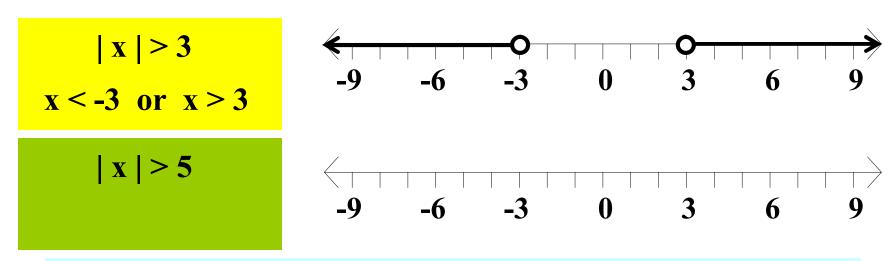
$$|x| > 3$$

 $x < -3$ or $x > 3$





Solve the inequality and graph the solution set.



Solve the inequality and graph the solution set.

$$|x| > 3$$

$$x < -3 \text{ or } x > 3$$

$$|x| > 5$$

$$x < -5$$

$$|x| > 5$$

$$-9 -6 -3 0 3 6 9$$

Solve the inequality and graph the solution set.

$$|x| > 3$$
 $x < -3 \text{ or } x > 3$
 $|x| > 5$
 $x < -5 \text{ or}$
 $|x| > 5$
 $-9 -6 -3 0 3 6 9$

Solve the inequality and graph the solution set.

$$|x| > 3$$

$$x < -3 \text{ or } x > 3$$

$$|x| > 5$$

$$x < -5 \text{ or } x > 5$$

$$-9 -6 -3 0 3 6 9$$

Solve the inequality and graph the solution set.

$$|x| > 3$$

 $x < -3$ or $x > 3$

$$|x| > 5$$

 $x < -5$ or $x > 5$



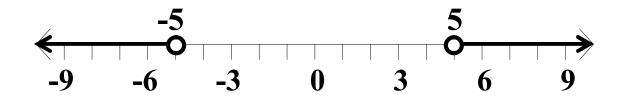
Solve the inequality and graph the solution set.

$$|x| > 3$$

 $x < -3$ or $x > 3$

$$|x| > 5$$

 $x < -5$ or $x > 5$



This time, any solution must be more than 5 units from 0. Once again, a continued inequality <u>cannot</u> be used.

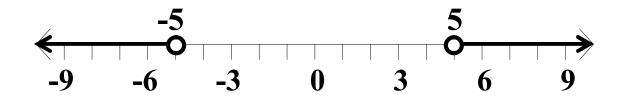
Solve the inequality and graph the solution set.

$$|x| > 3$$

 $x < -3$ or $x > 3$

$$|x| > 5$$

 $x < -5$ or $x > 5$



This time, any solution must be more than 5 units from 0. Once again, a continued inequality <u>cannot</u> be used. Don't forget to label any endpoint in the graph.

Solve the inequality and graph the solution set.

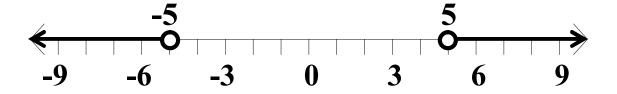
$$|x| > 3$$

 $x < -3$ or $x > 3$

$$|x| > 5$$

 $x < -5$ or $x > 5$





Solve the inequality and graph the solution set.

$$|x| > 3$$

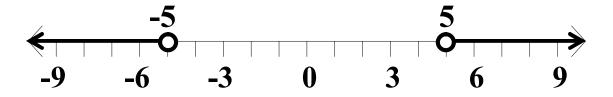
 $x < -3$ or $x > 3$

$$|x| > 5$$

 $x < -5$ or $x > 5$

$$|x| \ge 4$$







Solve the inequality and graph the solution set.

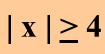
$$|x| > 3$$

 $x < -3 \text{ or } x > 3$
 $-9 -6 -3 0 3$

$$|x| > 5$$

 $x < -5 \text{ or } x > 5$
 $-9 -6 -3 0 3 6 9$





Solve the inequality and graph the solution set.

$$|x| > 3$$

$$x < -3 \text{ or } x > 3$$

$$|x| > 5$$

$$x < -5 \text{ or } x > 5$$

$$|x| \ge 4$$

$$x \le -4$$

$$-9 \quad -6 \quad -3 \quad 0 \quad 3 \quad 6 \quad 9$$

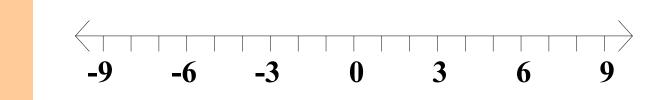
Solve the inequality and graph the solution set.

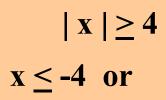
$$|x| > 3$$

 $x < -3 \text{ or } x > 3$
 $-9 \quad -6 \quad -3 \quad 0 \quad 3$

$$|x| > 5$$

 $x < -5 \text{ or } x > 5$
 $-9 -6 -3 0 3 6 9$



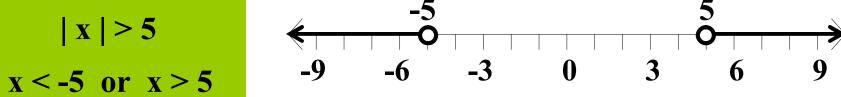


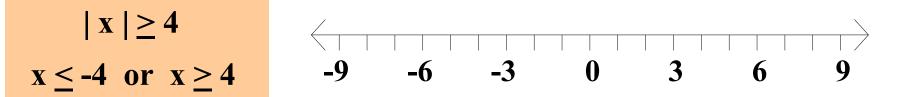
Solve the inequality and graph the solution set.

$$|x| > 3$$

 $x < -3 \text{ or } x > 3$

$$-5$$





Solve the inequality and graph the solution set.

$$|x| > 3$$

$$x < -3 \text{ or } x > 3$$

$$|x| > 5$$

$$x < -5 \text{ or } x > 5$$

$$|x| \ge 4$$

$$x < -4 \text{ or } x > 4$$

$$-9 -6 -3 0 3 6 9$$

This time, the 'endpoints' are included.

-6

 $x \le -4$ or $x \ge 4$

Solve the inequality and graph the solution set.

$$|x| > 3$$

 $x < -3$ or $x > 3$

$$|x| > 5$$

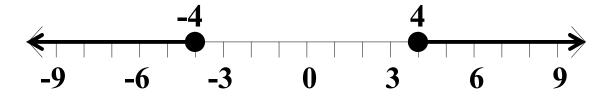
 $x < -5$ or $x > 5$

$$|x| \ge 4$$

 $x \le -4$ or $x \ge 4$







Solve the inequality and graph the solution set.

$$|x| > 3$$

$$x < -3 \text{ or } x > 3$$

$$|x| > 5$$

$$x < -5 \text{ or } x > 5$$

$$|x| \ge 4$$

$$x \le -4 \text{ or } x \ge 4$$

$$-9 -6 -3 0 3 6 9$$

Solve the inequality and graph the solution set.

$$|x| > 3$$

 $x < -3$ or $x > 3$

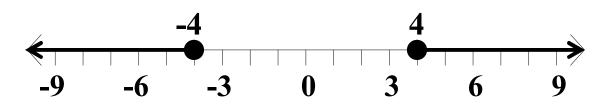
$$|x| > 5$$

 $x < -5$ or $x > 5$



$$|x| \ge 4$$

 $x \le -4$ or $x \ge 4$



If
$$|N| > k$$

Solve the inequality and graph the solution set.

$$|x| > 3$$

 $x < -3$ or $x > 3$

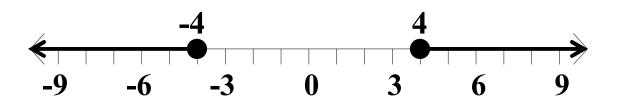
$$|x| > 5$$

 $x < -5$ or $x > 5$



$$|x| \ge 4$$

 $x \le -4$ or $x \ge 4$



If
$$|N| > k$$
 and $k > 0$,

Solve the inequality and graph the solution set.

$$|x| > 3$$

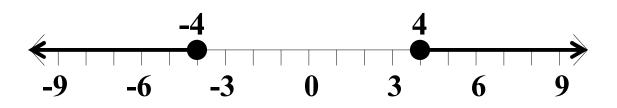
 $x < -3$ or $x > 3$

$$|x| > 5$$

 $x < -5$ or $x > 5$

$$|x| \ge 4$$

 $x \le -4$ or $x \ge 4$



Here is the rule that is used to solve inequalities similar to these.

If
$$|N| > k$$
 and $k > 0$,

This is important !!

Solve the inequality and graph the solution set.

$$|x| > 3$$

 $x < -3$ or $x > 3$

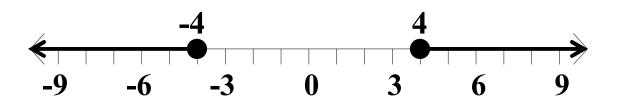
$$|x| > 5$$

 $x < -5$ or $x > 5$



$$|x| \ge 4$$

 $x \le -4$ or $x \ge 4$



If
$$|N| > k$$
 and $k > 0$,

Solve the inequality and graph the solution set.

$$|x| > 3$$

 $x < -3$ or $x > 3$

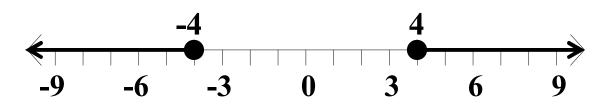
$$|x| > 5$$

 $x < -5$ or $x > 5$



$$|x| \ge 4$$

 $x \le -4$ or $x \ge 4$



Here is the rule that is used to solve inequalities similar to these.

If |N| > k and k > 0, then N < -k

Solve the inequality and graph the solution set.

$$|x| > 3$$

 $x < -3$ or $x > 3$

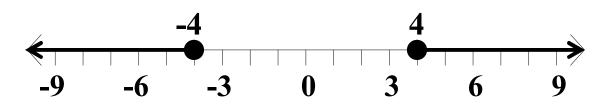
$$|x| > 5$$

 $x < -5$ or $x > 5$



$$|x| \ge 4$$

 $x \le -4$ or $x \ge 4$



Here is the rule that is used to solve inequalities similar to these.

If |N| > k and k > 0, then N < -k or

Solve the inequality and graph the solution set.

$$|x| > 3$$

 $x < -3$ or $x > 3$

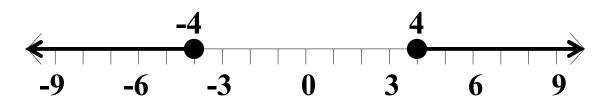
$$|x| > 5$$

 $x < -5$ or $x > 5$



$$|x| \ge 4$$

 $x \le -4$ or $x \ge 4$



Here is the rule that is used to solve inequalities similar to these.

If |N| > k and k > 0, then N < -k or N > k.

Solve the inequality and graph the solution set.

$$|x| > 3$$

 $x < -3$ or $x > 3$

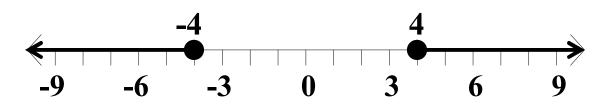
$$|x| > 5$$

 $x < -5$ or $x > 5$



$$|x| \ge 4$$

 $x \le -4$ or $x \ge 4$



If
$$|N| > k$$
 and $k > 0$, then $N < -k$ or $N > k$.
If $|N| \ge k$

Solve the inequality and graph the solution set.

$$|x| > 3$$

 $x < -3$ or $x > 3$

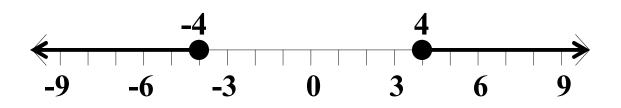
$$|x| > 5$$

 $x < -5$ or $x > 5$



$$|x| \ge 4$$

 $x \le -4$ or $x \ge 4$



If
$$|N| > k$$
 and $k > 0$, then $N < -k$ or $N > k$.
If $|N| \ge k$ and $k > 0$,

Solve the inequality and graph the solution set.

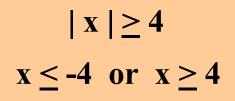
$$|x| > 3$$

 $x < -3$ or $x > 3$

$$|x| > 5$$

 $x < -5$ or $x > 5$







If
$$|N| > k$$
 and $k > 0$, then $N < -k$ or $N > k$.
If $|N| \ge k$ and $k > 0$, then $N \le -k$

Solve the inequality and graph the solution set.

$$|x| > 3$$

 $x < -3$ or $x > 3$

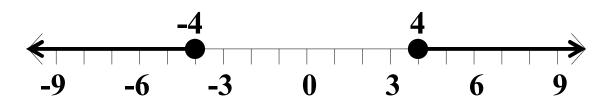
$$|x| > 5$$

 $x < -5$ or $x > 5$



$$|x| \ge 4$$

 $x \le -4$ or $x \ge 4$



If
$$|N| > k$$
 and $k > 0$, then $N < -k$ or $N > k$.
If $|N| \ge k$ and $k > 0$, then $N \le -k$ or

Solve the inequality and graph the solution set.

$$|x| > 3$$

 $x < -3$ or $x > 3$

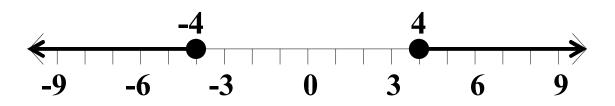
$$|x| > 5$$

 $x < -5$ or $x > 5$



$$|x| \ge 4$$

 $x \le -4$ or $x \ge 4$



Here is the rule that is used to solve inequalities similar to these.

If |N| > k and k > 0, then N < -k or N > k.

If $|N| \ge k$ and k > 0, then $N \le -k$ or $N \ge k$.

Solve the inequality and graph the solution set.

$$|x| > 3$$

 $x < -3$ or $x > 3$

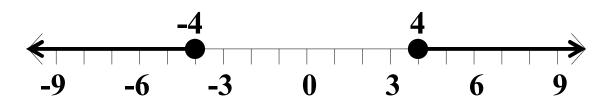
$$|x| > 5$$

 $x < -5$ or $x > 5$



$$|x| \ge 4$$

 $x \le -4$ or $x \ge 4$



Here is the rule that is used to solve inequalities similar to these.

If |N| > k and k > 0, then N < -k or N > k.

If $|N| \ge k$ and k > 0, then $N \le -k$ or $N \ge k$.

Solve the inequality and graph the solution set.

$$|x| > 3$$

 $x < -3 \text{ or } x > 3$
 $|x| > 5$

Good luck on your homework !! 9

 $|x| \ge 4$
 $x \le -4 \text{ or } x \ge 4$
 $|x| \ge 4$
 $|$

If
$$|N| > k$$
 and $k > 0$, then $N < -k$ or $N > k$.
If $|N| \ge k$ and $k > 0$, then $N \le -k$ or $N \ge k$.