Algebra I Lesson #4 Unit 4
Class Worksheet #4
For Worksheets #7&8

Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: $\mathbf{-3 < x < 4}$

Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: **$-3 < x < 4$**

This continued inequality says 2 things about the variable x.

Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

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Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

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Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

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Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: **$-3 < x < 4$**

This continued inequality says 2 things about the variable x.

First: $-3 < x$ means **x is greater than -3**.

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Continued inequalities are ñread from the middleò.

Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: **-3 < x < 4**

This continued inequality says 2 things about the variable x.

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Continued inequalities are ñread from the middleò.

-3 < x < 4

Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: **-3 < x < 4**

This continued inequality says 2 things about the variable x.

First: -3 < x means **x is greater than -3**.

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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-3 < x < 4 is read ó**x is greater than -3 and less than 4'**.

You can also say ó**x is between -3 and 4**ô.

Algebra I Class Worksheet #4 Unit 4

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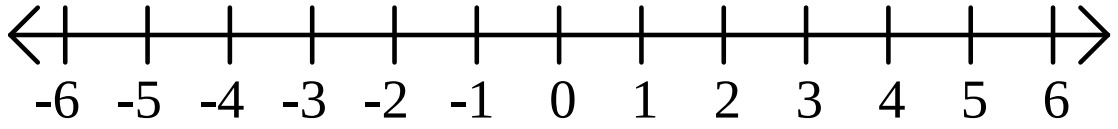

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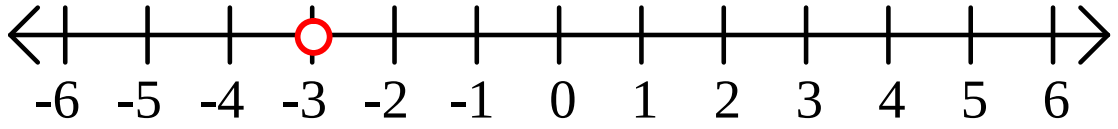

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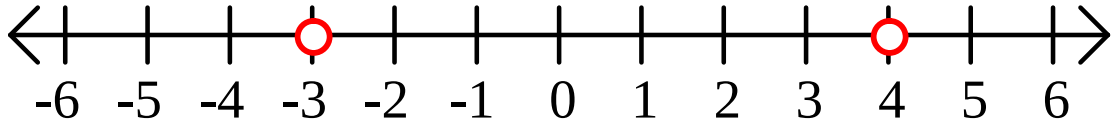

Algebra I Class Worksheet #4 Unit 4

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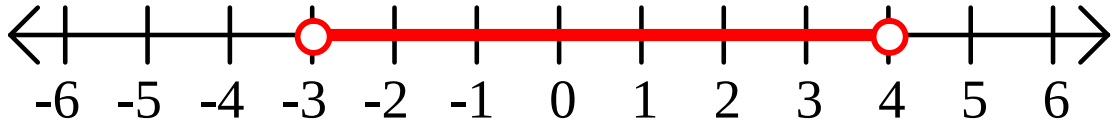

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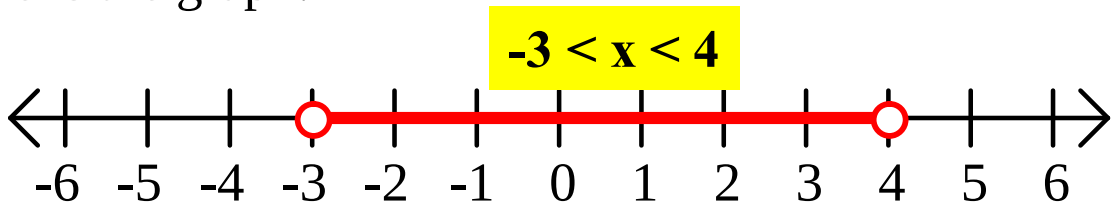

Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: $\mathbf{-5 \leq x \leq 1}$

Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

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This continued inequality says 2 things about the variable x.

Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

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Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: **$-5 \leq x \leq 1$**

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Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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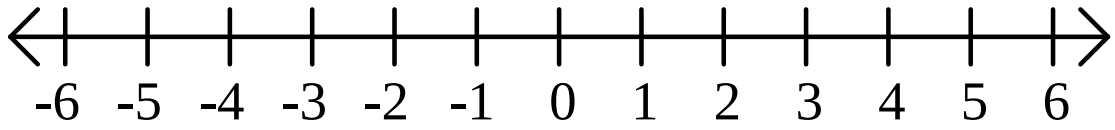

Algebra I Class Worksheet #4 Unit 4

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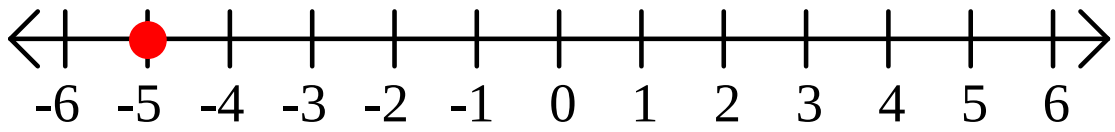

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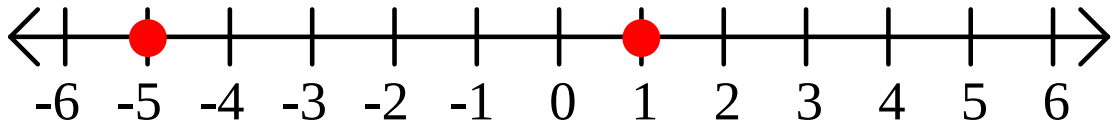

Algebra I Class Worksheet #4 Unit 4

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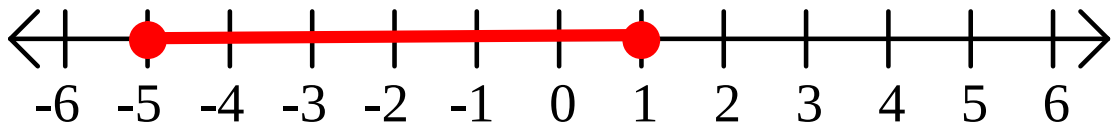

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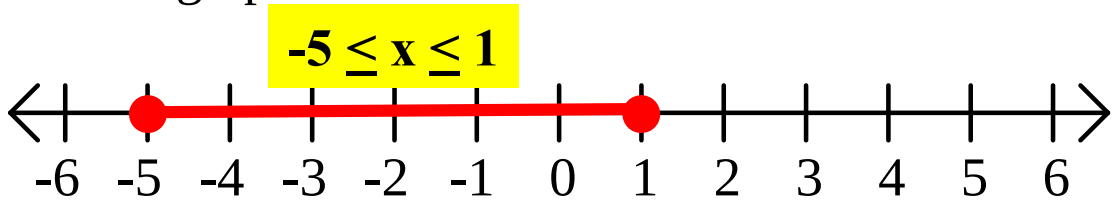

Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: $\mathbf{0 \leq x < 5}$

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This continued inequality says 2 things about the variable x.

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Continued Inequalities

Example: **$0 \leq x < 5$**

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Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: **$0 \leq x < 5$**

This continued inequality says 2 things about the variable x.

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Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: **$0 \leq x < 5$**

This continued inequality says 2 things about the variable x.

First: $0 \leq x$ means **x is greater than or equal to 0**.

Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: **$0 \leq x < 5$**

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Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: **$0 \leq x < 5$**

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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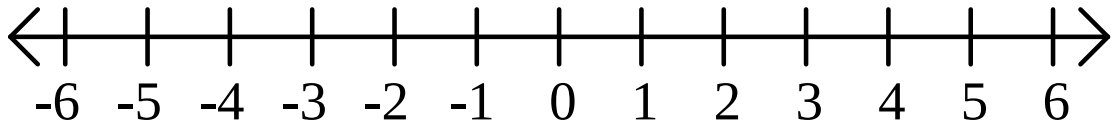

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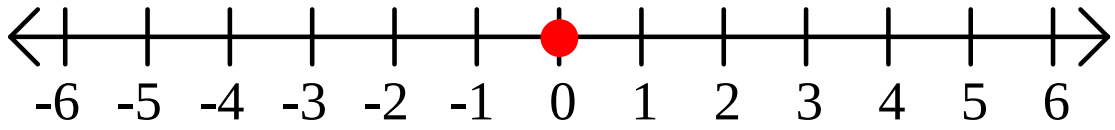

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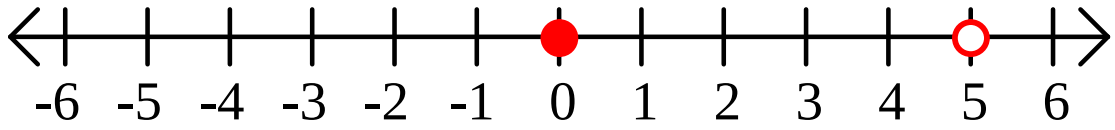

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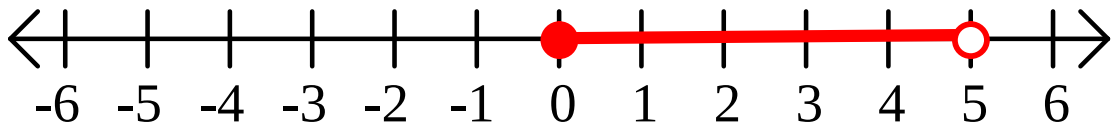
$0 \leq x < 5$ is read ó**x is greater than or equal to 0 and less than 5'**.

Here is the graph.



Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: **$0 \leq x < 5$**

This continued inequality says 2 things about the variable x.

First: $0 \leq x$ means **x is greater than or equal to 0**.

Second: $x < 5$ means **x is less than 5**.

Continued inequalities are ñread from the middleò.

$0 \leq x < 5$ is read ó**x is greater than or equal to 0 and less than 5'**.

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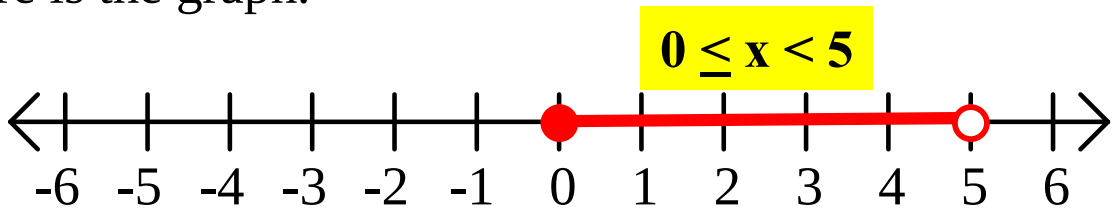

Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: $\mathbf{-4 < x \leq -1}$

Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: **$-4 < x \leq -1$**

This continued inequality says 2 things about the variable x.

Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

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Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

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Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

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Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: $\mathbf{-4 < x \leq -1}$

This continued inequality says 2 things about the variable x.

First: $-4 < x$ means **x is greater than -4**.

Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: **$-4 < x \leq -1$**

This continued inequality says 2 things about the variable x.

First: $-4 < x$ means **x is greater than -4**.

Second:

Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: **$-4 < x \leq -1$**

This continued inequality says 2 things about the variable x.

First: $-4 < x$ means **x is greater than -4**.

Second: $x \leq -1$

Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: **$-4 < x \leq -1$**

This continued inequality says 2 things about the variable x.

First: $-4 < x$ means **x is greater than -4**.

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Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: **$-4 < x \leq -1$**

This continued inequality says 2 things about the variable x.

First: $-4 < x$ means **x is greater than -4**.

Second: $x \leq -1$ means **x is less than or equal to -1**.

Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: **$-4 < x \leq -1$**

This continued inequality says 2 things about the variable x.

First: $-4 < x$ means **x is greater than -4**.

Second: $x \leq -1$ means **x is less than or equal to -1**.

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Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: **$-4 < x \leq -1$**

This continued inequality says 2 things about the variable x.

First: $-4 < x$ means **x is greater than -4**.

Second: $x \leq -1$ means **x is less than or equal to -1**.

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Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: **$-4 < x \leq -1$**

This continued inequality says 2 things about the variable x.

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Second: $x \leq -1$ means **x is less than or equal to -1**.

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Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: **$-4 < x \leq -1$**

This continued inequality says 2 things about the variable x.

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Second: $x \leq -1$ means **x is less than or equal to -1**.

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Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: **$-4 < x \leq -1$**

This continued inequality says 2 things about the variable x.

First: $-4 < x$ means **x is greater than -4**.

Second: $x \leq -1$ means **x is less than or equal to -1**.

Continued inequalities are ñread from the middleò.

$-4 < x \leq -1$ is read ó**x is greater than -4 and**

Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: **$-4 < x \leq -1$**

This continued inequality says 2 things about the variable x.

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Second: $x \leq -1$ means **x is less than or equal to -1**.

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$-4 < x \leq -1$ is read ó**x is greater than -4 and less than or equal to -1**'.

Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: **$-4 < x \leq -1$**

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Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

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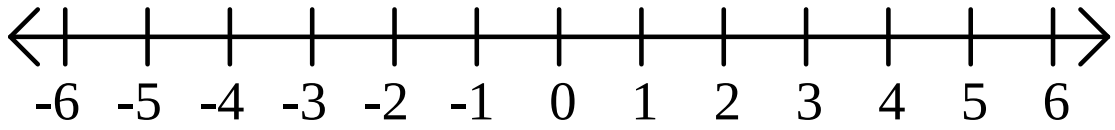

Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

Example: **$-4 < x \leq -1$**

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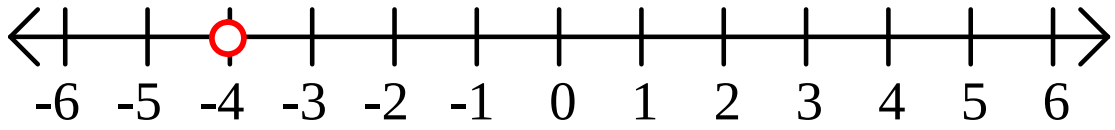

Algebra I Class Worksheet #4 Unit 4

Continued Inequalities

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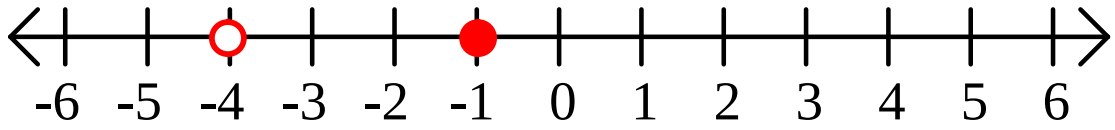

Algebra I Class Worksheet #4 Unit 4

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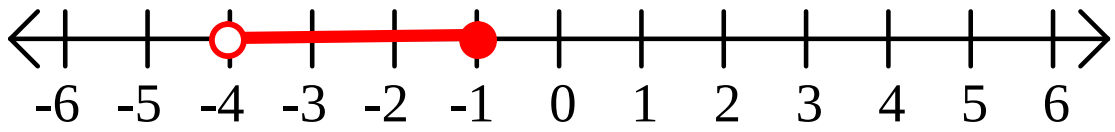

Algebra I Class Worksheet #4 Unit 4

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Example: **$-4 < x \leq -1$**

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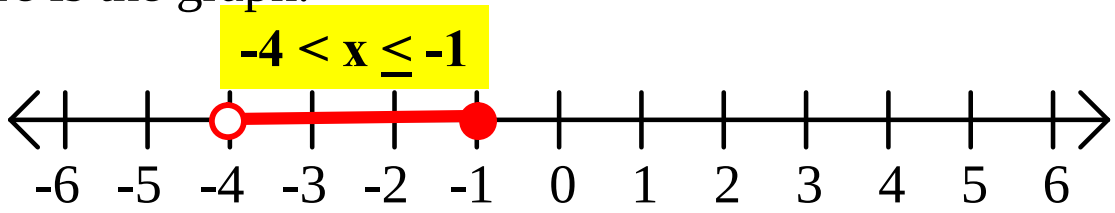

Algebra I Class Worksheet #4 Unit 4

Solving Continued Inequalities

Algebra I Class Worksheet #4 Unit 4

Solving Continued Inequalities

Example: $\mathbf{-5 < 2x - 3 < 1}$

Algebra I Class Worksheet #4 Unit 4

Solving Continued Inequalities

Example: **$-5 < 2x - 3 < 1$**

Solving continued inequalities is just like solving other inequalities except there are 3 ópartsô.

Algebra I Class Worksheet #4 Unit 4

Solving Continued Inequalities

Example: **$-5 < 2x - 3 < 1$**

Solving continued inequalities is just like solving other inequalities except there are 3 ópartsô.

$$-5 < 2x - 3 < 1$$

Algebra I Class Worksheet #4 Unit 4

Solving Continued Inequalities

Example: **$-5 < 2x - 3 < 1$**

Solving continued inequalities is just like solving other inequalities except there are 3 ópartsô.

Step 1: **$-5 < 2x - 3 < 1$**

Algebra I Class Worksheet #4 Unit 4

Solving Continued Inequalities

Example: **$-5 < 2x - 3 < 1$**

Solving continued inequalities is just like solving other inequalities except there are 3 ópartsô.

$-5 < 2x - 3 < 1$

Step 1: Add 3 to each part.

Algebra I Class Worksheet #4 Unit 4

Solving Continued Inequalities

Example: **$-5 < 2x - 3 < 1$**

Solving continued inequalities is just like solving other inequalities except there are 3 ópartsô.

Step 1: Add 3 to each part.

$$\begin{array}{ccccc} -5 & < & 2x - 3 & < & 1 \\ +3 & & & & +3 \quad +3 \end{array}$$

Algebra I Class Worksheet #4 Unit 4

Solving Continued Inequalities

Example: **$-5 < 2x - 3 < 1$**

Solving continued inequalities is just like solving other inequalities except there are 3 ópartsô.

Step 1: Add 3 to each part.

$$\begin{array}{rrrrr} -5 & < & 2x - 3 & < & 1 \\ +3 & & +3 & & +3 \\ \hline -2 & & & & \end{array}$$

Algebra I Class Worksheet #4 Unit 4

Solving Continued Inequalities

Example: **$-5 < 2x - 3 < 1$**

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Step 1: Add 3 to each part.

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Algebra I Class Worksheet #4 Unit 4

Solving Continued Inequalities

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$$\begin{array}{rrrr} -5 & < 2x - 3 & < & 1 \\ +3 & & +3 & +3 \\ \hline & -2 & < 2x & \end{array}$$

Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Step 2: Divide each part by 2.

Algebra I Class Worksheet #4 Unit 4

Solving Continued Inequalities

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$$\frac{-2}{2} < \frac{2x}{2} < \frac{4}{2}$$

Algebra I Class Worksheet #4 Unit 4

Solving Continued Inequalities

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

Solving Continued Inequalities

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Step 3:

$$-1 < x < 2$$

Algebra I Class Worksheet #4 Unit 4

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Step 3: Graph the solution set.

$$-1 < x < 2$$

Algebra I Class Worksheet #4 Unit 4

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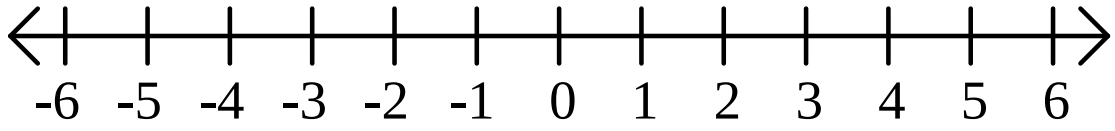

Algebra I Class Worksheet #4 Unit 4

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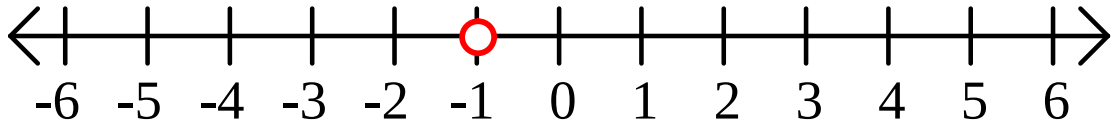

Algebra I Class Worksheet #4 Unit 4

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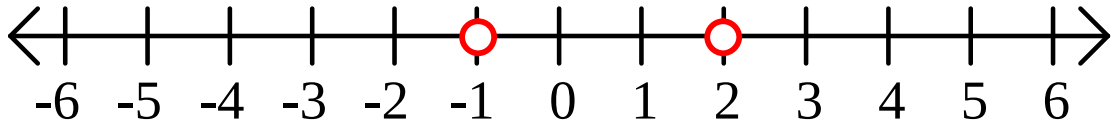

Algebra I Class Worksheet #4 Unit 4

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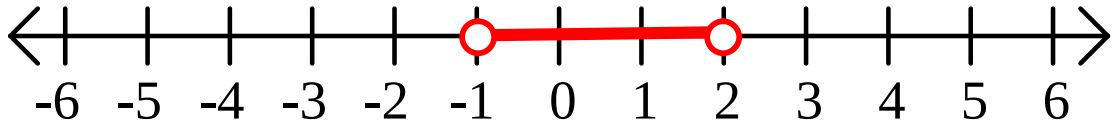

Algebra I Class Worksheet #4 Unit 4

Solving Continued Inequalities

Example: $\mathbf{-9 \leq 3x + 6 \leq 12}$

Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

Solving Continued Inequalities

Example: **$-9 \leq 3x + 6 \leq 12$**

Step 1:

$$-9 \leq 3x + 6 \leq 12$$

Algebra I Class Worksheet #4 Unit 4

Solving Continued Inequalities

Example: **$-9 \leq 3x + 6 \leq 12$**

Step 1: Subtract 6 from each part.

$$-9 \leq 3x + 6 \leq 12$$

Algebra I Class Worksheet #4 Unit 4

Solving Continued Inequalities

Example: $\mathbf{-9 \leq 3x + 6 \leq 12}$

Step 1: Subtract 6 from each part.

$$\begin{array}{rrrrr} -9 & \leq & 3x + 6 & \leq & 12 \\ -6 & & -6 & & -6 \end{array}$$

Algebra I Class Worksheet #4 Unit 4

Solving Continued Inequalities

Example: $\mathbf{-9 \leq 3x + 6 \leq 12}$

Step 1: Subtract 6 from each part.

$$\begin{array}{rrrrr} -9 & \leq & 3x + 6 & \leq & 12 \\ -6 & & -6 & & -6 \\ \hline & & -15 & & \end{array}$$

Algebra I Class Worksheet #4 Unit 4

Solving Continued Inequalities

Example: $\mathbf{-9 \leq 3x + 6 \leq 12}$

Step 1: Subtract 6 from each part.

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Algebra I Class Worksheet #4 Unit 4

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$$\begin{array}{rrrr} -9 \leq & 3x & + 6 \leq & 12 \\ -6 & & -6 & -6 \\ \hline -15 \leq & 3x & & \end{array}$$

Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Step 2:

Algebra I Class Worksheet #4 Unit 4

Solving Continued Inequalities

Example: $\mathbf{-9 \leq 3x + 6 \leq 12}$

Step 1: Subtract 6 from each part.

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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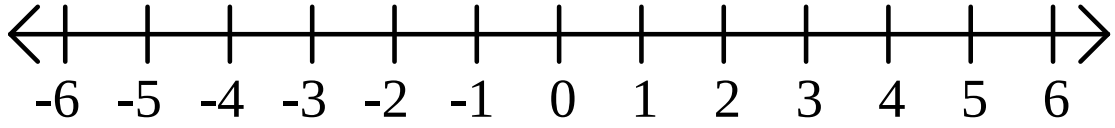

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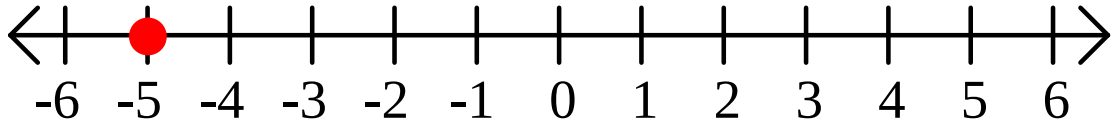

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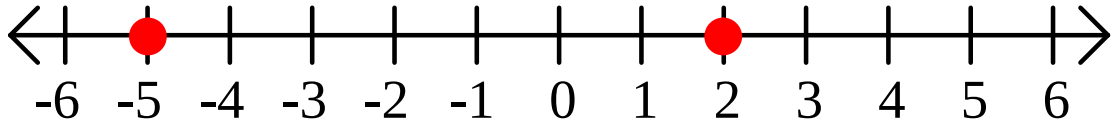

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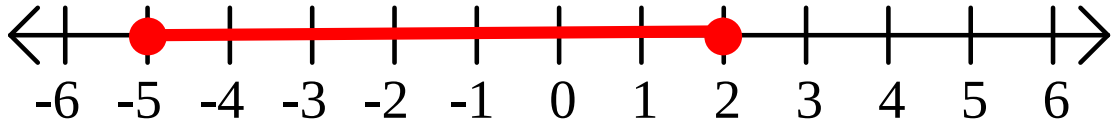

Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 1: ćandô

Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 1: ǿandô Example: **x + 1 < 5 and 3x > -9**

Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Step 1: Solve each inequality.

$$x + 1 < 5 \quad \text{and} \quad 3x > -9$$
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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Step 1: Solve each inequality.

$$\begin{array}{l} x + 1 < 5 \text{ and } 3x > -9 \\ \underline{\quad -1 \quad -1} \\ \quad x < \end{array}$$

Algebra I Class Worksheet #4 Unit 4

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Step 1: Solve each inequality.

$$x + 1 < 5 \text{ and } 3x > -9$$
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Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

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Step 1: Solve each inequality.

Step 2: Graph the **intersection** of the two solution sets.

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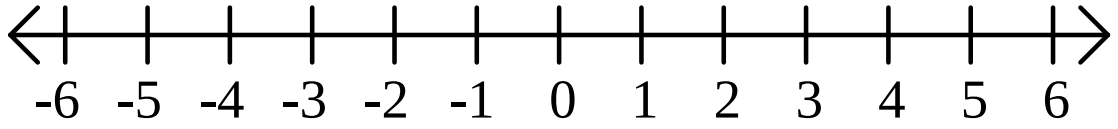

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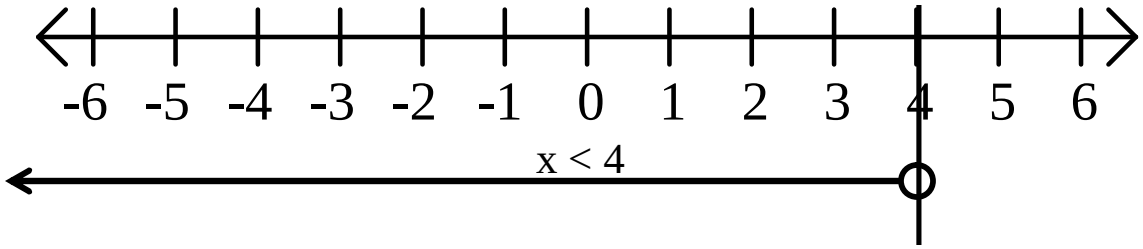

Algebra I Class Worksheet #4 Unit 4

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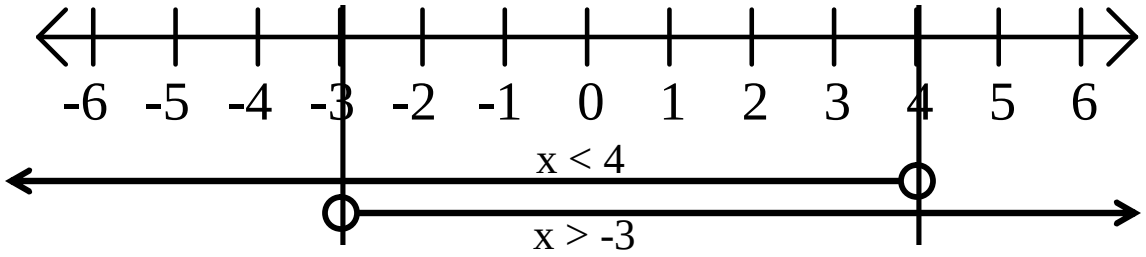

Algebra I Class Worksheet #4 Unit 4

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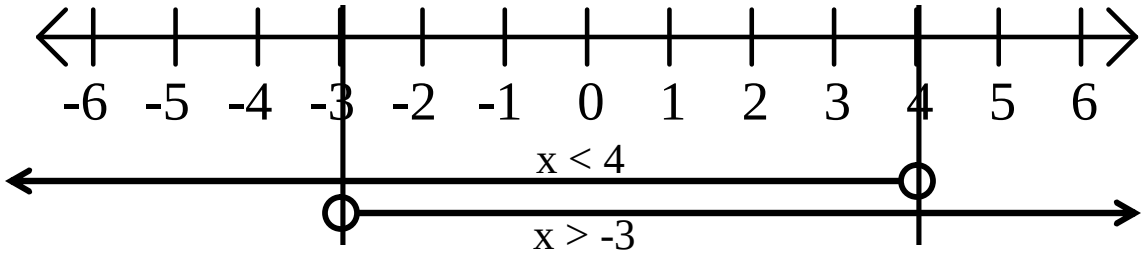

Algebra I Class Worksheet #4 Unit 4

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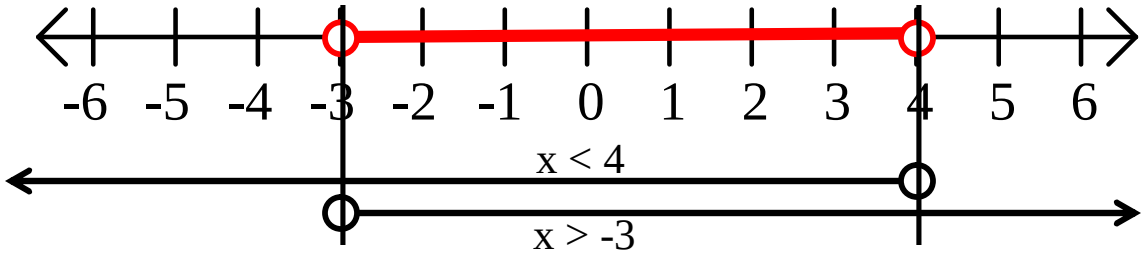

Algebra I Class Worksheet #4 Unit 4

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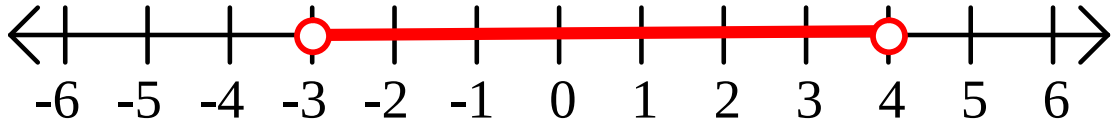

Algebra I Class Worksheet #4 Unit 4

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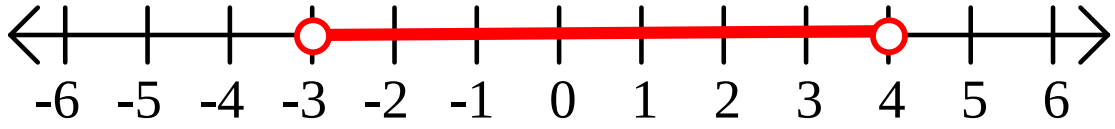

Algebra I Class Worksheet #4 Unit 4

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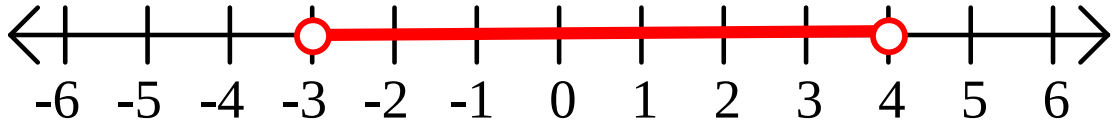
Step 2: Graph the **intersection** of the two solution sets.

Step 3: Express the final solution in terms of x in simplest form.



Algebra I Class Worksheet #4 Unit 4

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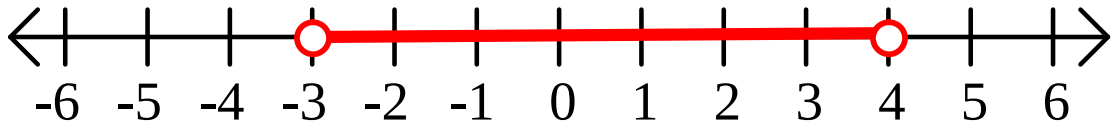
$-3 < x < 4$



Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 1: ǿandô Example: **2x – 1 > -5 and 5x + 3 > 18**

Algebra I Class Worksheet #4 Unit 4

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Step 1: Solve each inequality.

Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 1: ćandô Example: **2x – 1 > -5 and 5x + 3 > 18**

Step 1: Solve each inequality.

2x – 1 > -5 and 5x + 3 > 18
+1 +1

Algebra I Class Worksheet #4 Unit 4

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+1 +1

2x

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+1 +1

2x >

Algebra I Class Worksheet #4 Unit 4

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$$2x - 1 > -5 \text{ and } 5x + 3 > 18$$
$$+1 \quad +1$$
$$2x > -4$$

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$$\frac{2x}{2} > \frac{-4}{2}$$

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$$+1 \quad +1$$

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Step 1: Solve each inequality.

$$2x - 1 > -5 \quad \text{and} \quad 5x + 3 > 18$$
$$+1 \quad +1 \qquad\qquad -3 \quad -3$$

$$\frac{2x}{2} > \frac{-4}{2}$$

$$x > -2$$

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Step 1: Solve each inequality.

$$2x - 1 > -5 \quad \text{and} \quad 5x + 3 > 18$$

$$+1 \quad +1 \qquad\qquad -3 \quad -3$$

$$2x > -4 \qquad\qquad 5x$$

$$\frac{2x}{2} > \frac{-4}{2}$$

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$$+1 \quad +1 \qquad\qquad -3 \quad -3$$

$$2x > -4 \qquad\qquad 5x >$$

$$\frac{2x}{2} > \frac{-4}{2}$$

$$x > -2$$

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Step 1: Solve each inequality.

$$2x - 1 > -5 \quad \text{and} \quad 5x + 3 > 18$$

$$+1 \quad +1 \qquad\qquad -3 \quad -3$$

$$2x > -4 \qquad\qquad 5x > 15$$

$$\frac{2x}{2} > \frac{-4}{2}$$

$$x > -2$$

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$$+1 \quad +1 \qquad\qquad -3 \quad -3$$

$$\frac{2x}{2} > \frac{-4}{2} \qquad\qquad \frac{5x}{5} > \frac{15}{5}$$

$$x > -2$$

Algebra I Class Worksheet #4 Unit 4

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Type 1: œandô Example: **$2x - 1 > -5$ and $5x + 3 > 18$**

Step 1: Solve each inequality.

$$2x - 1 > -5 \quad \text{and} \quad 5x + 3 > 18$$

$$+1 \quad +1 \qquad\qquad -3 \quad -3$$

$$\frac{2x}{2} > \frac{-4}{2} \qquad\qquad \frac{5x}{5} > \frac{15}{5}$$

$$x > -2 \qquad\qquad x$$

Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

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Algebra I Class Worksheet #4 Unit 4

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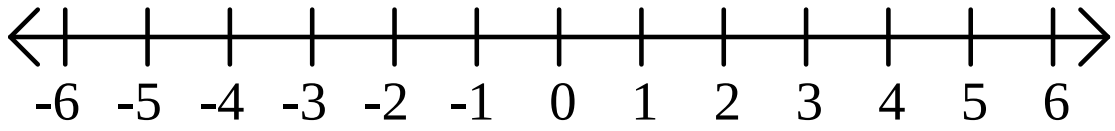
$$\begin{array}{l|l} 2x - 1 > -5 & 5x + 3 > 18 \\ \quad +1 \quad +1 & \quad -3 \quad -3 \\ \hline \frac{2x}{2} > \frac{-4}{2} & \frac{5x}{5} > \frac{15}{5} \\ x > -2 & x > 3 \end{array}$$

and



Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

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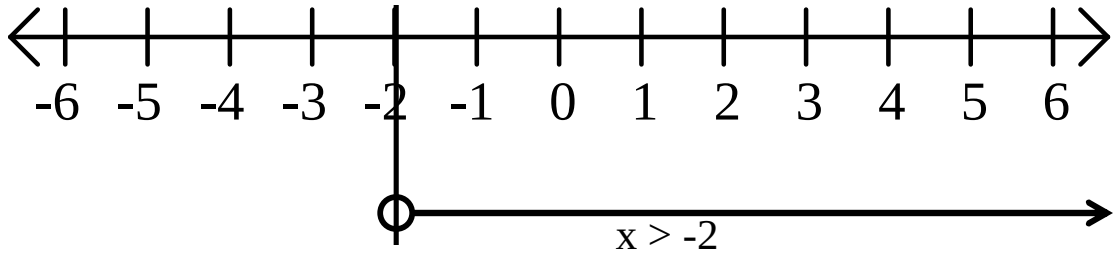
$$\begin{array}{rcl} 2x - 1 & > & -5 \\ +1 & & +1 \\ \hline \frac{2x}{2} & > & \frac{-4}{2} \\ x & > & -2 \end{array} \quad \text{and} \quad \begin{array}{rcl} 5x + 3 & > & 18 \\ -3 & & -3 \\ \hline \frac{5x}{5} & > & \frac{15}{5} \\ x & > & 3 \end{array}$$



Algebra I Class Worksheet #4 Unit 4

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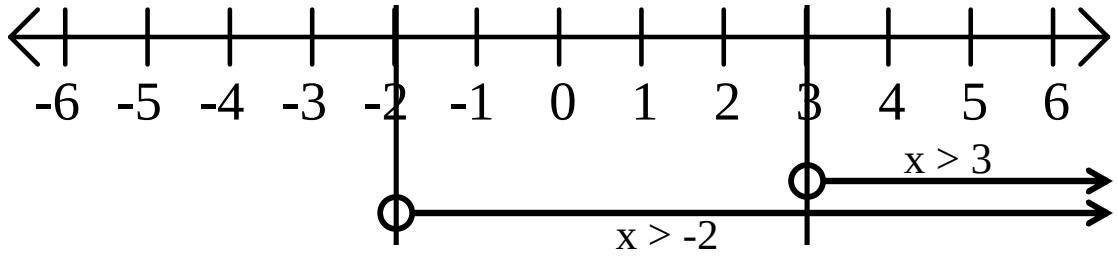

Algebra I Class Worksheet #4 Unit 4

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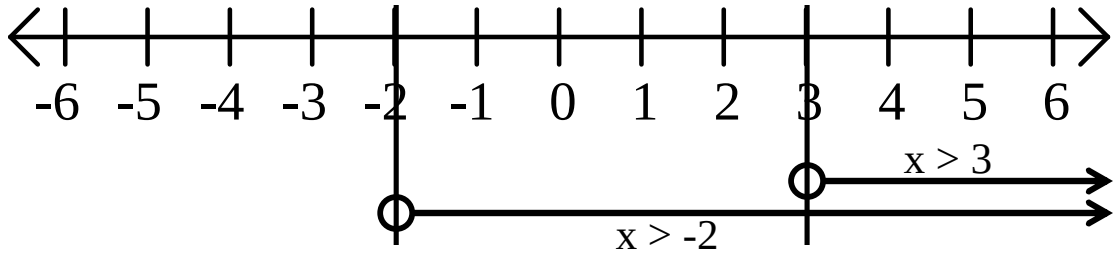

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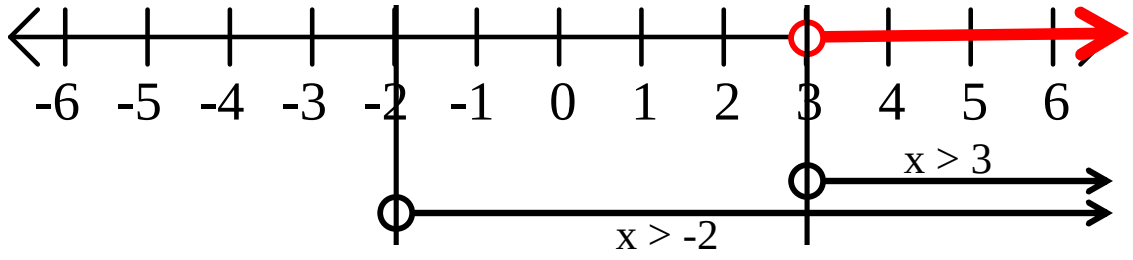

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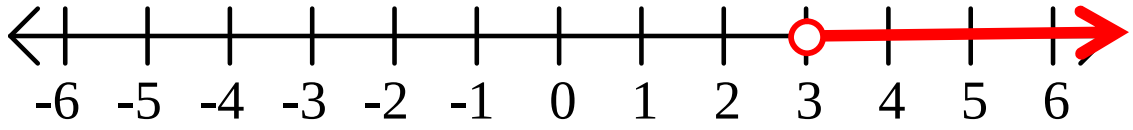

Algebra I Class Worksheet #4 Unit 4

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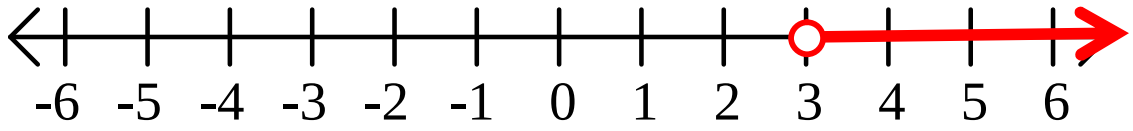
Step 2: Graph the **intersection** of the two solution sets.

Step 3:



Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 1: œandô Example: **$2x - 1 > -5$ and $5x + 3 > 18$**

Step 1: Solve each inequality.

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Step 3: Express the final solution in terms of x in simplest form.

$$2x - 1 > -5 \quad \text{and} \quad 5x + 3 > 18$$
$$+1 \;\; +1 \qquad\qquad -3 \;\; -3$$
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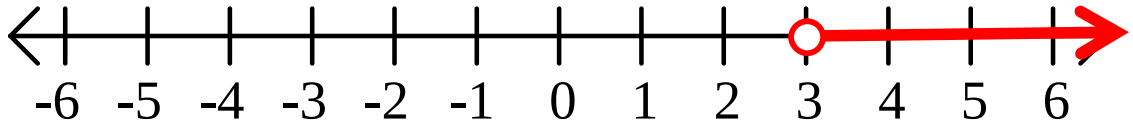

Algebra I Class Worksheet #4 Unit 4

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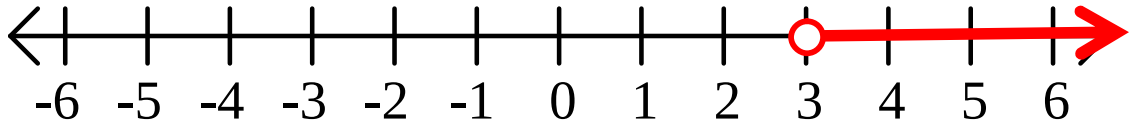

Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 1: ǿandô Example: **$-4x + 6 \geq 14$ and $3x + 10 < 22$**

Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Type 1: ćandô Example: **$-4x + 6 \geq 14$ and $3x + 10 < 22$**

Step 1: Solve each inequality.

$$-4x + 6 \geq 14 \quad \text{and} \quad 3x + 10 < 22$$
$$-6 \quad -6$$

Algebra I Class Worksheet #4 Unit 4

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$$-4x \geq 8$$

Algebra I Class Worksheet #4 Unit 4

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$$-4x + 6 \geq 14 \quad \text{and} \quad 3x + 10 < 22$$

$$-6 \quad -6 \qquad\qquad -10 \quad -10$$

$$-4x \geq 8 \qquad\qquad 3x < 12$$

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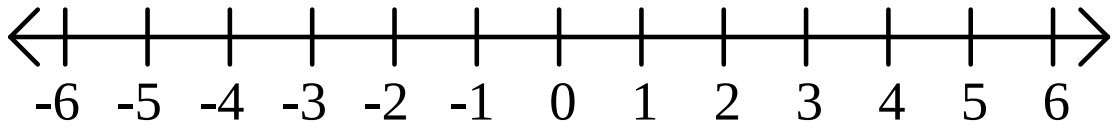

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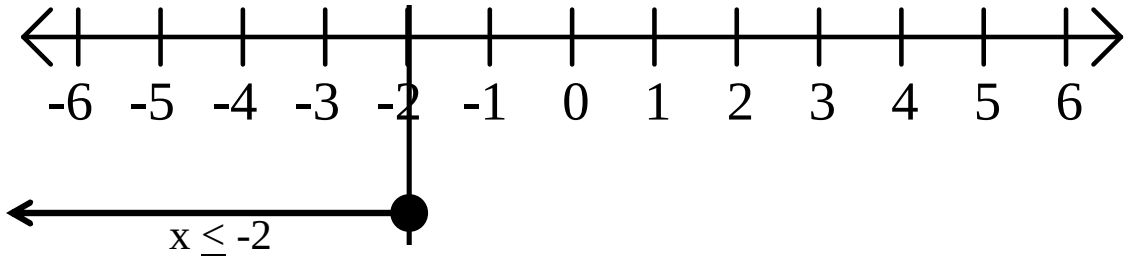

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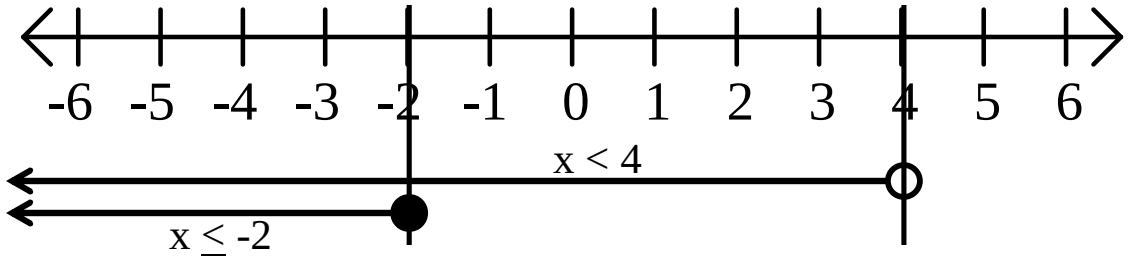

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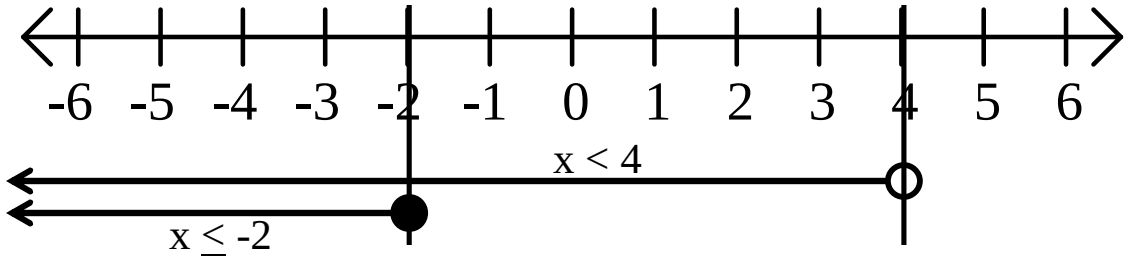

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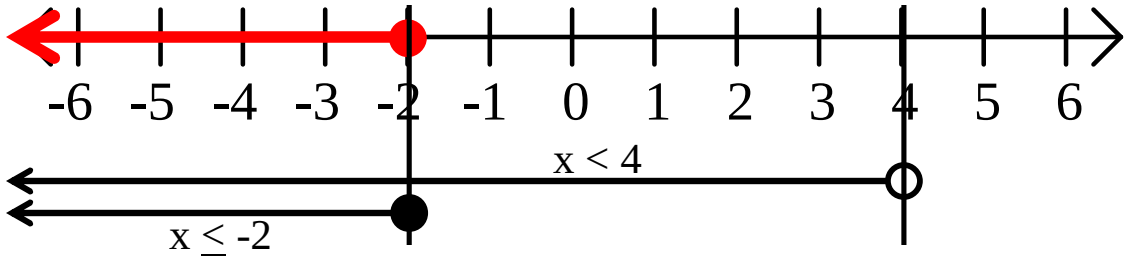

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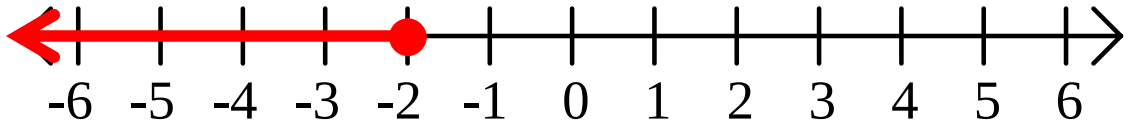


Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 1: ǿandô Example: **$-4x + 6 \geq 14$ and $3x + 10 < 22$**

Step 1: Solve each inequality.

Step 2: Graph the **intersection** of the two solution sets.

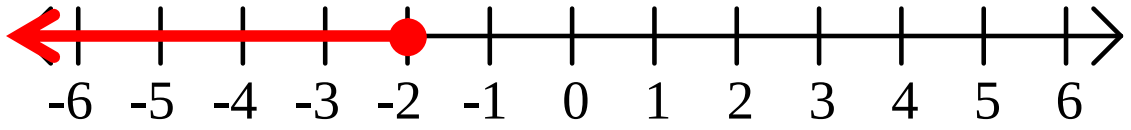
Step 3: Express the final solution in terms of x in simplest form.

$$-4x + 6 \geq 14 \quad \text{and} \quad 3x + 10 < 22$$

$$-6 \quad -6 \qquad\qquad -10 \quad -10$$

$$\frac{-4x}{-4} \geq \frac{8}{-4} \qquad\qquad \frac{3x}{3} < \frac{12}{3}$$

$$x \leq -2 \quad \text{and} \quad x < 4$$



Algebra I Class Worksheet #4 Unit 4

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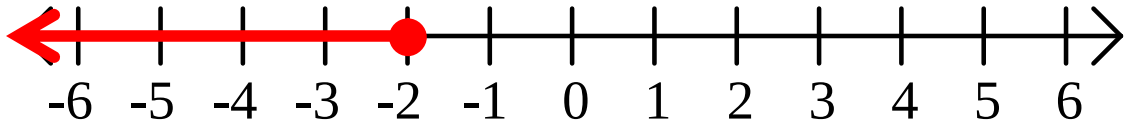

Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 1: ćandô Example: **$5x + 3 \leq 13$ and $-2x + 9 < 3$**

Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

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Step 1: Solve each inequality.

Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Type 1: ǿandô Example: **$5x + 3 \leq 13$ and $-2x + 9 < 3$**

Step 1: Solve each inequality.

$$5x + 3 \leq 13 \quad \text{and} \quad -2x + 9 < 3$$
$$-3 \quad -3$$

Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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$$5x \leq 10$$

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$$\frac{5x}{5} \leq \frac{10}{5}$$

Algebra I Class Worksheet #4 Unit 4

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$$\frac{5x}{5} \leq \frac{10}{5}$$
$$x \leq 2$$

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Algebra I Class Worksheet #4 Unit 4

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$$-3 \quad -3 \qquad\qquad -9 \quad -9$$

$$5x \leq 10 \qquad\qquad -2x < -6$$

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

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Step 1: Solve each inequality.

Step 2: Graph the **intersection** of the two solution sets.

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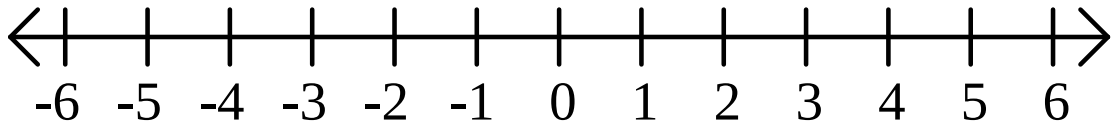

Algebra I Class Worksheet #4 Unit 4

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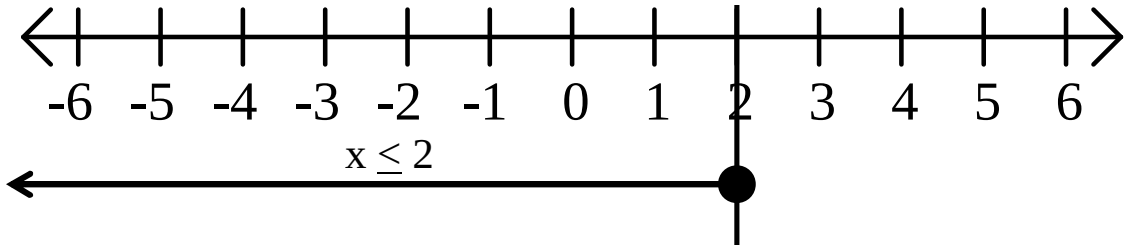

Algebra I Class Worksheet #4 Unit 4

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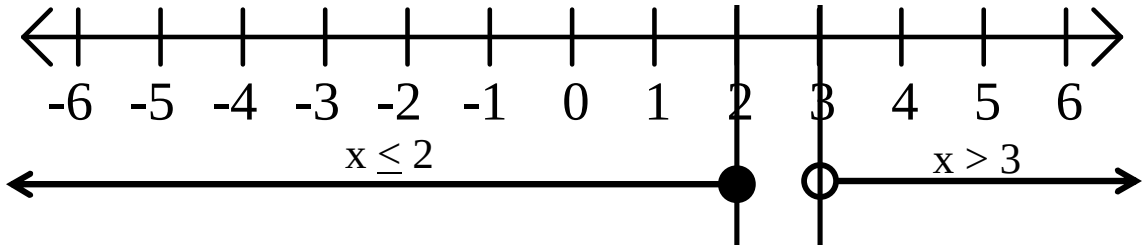

Algebra I Class Worksheet #4 Unit 4

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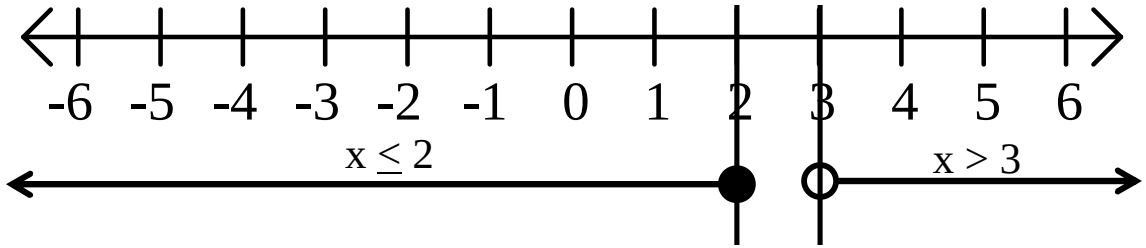

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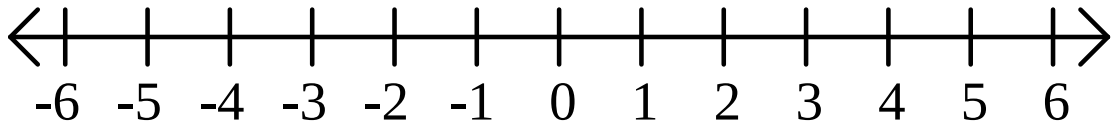

Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

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Step 1: Solve each inequality.

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Step 3: Express the final solution in terms of x in simplest form.

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$$\frac{5x}{5} \leq \frac{10}{5} \qquad\qquad \frac{-2x}{-2} < \frac{-6}{-2}$$

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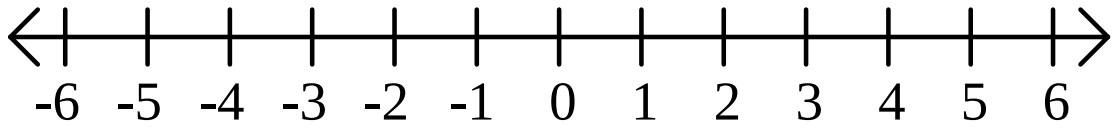

Algebra I Class Worksheet #4 Unit 4

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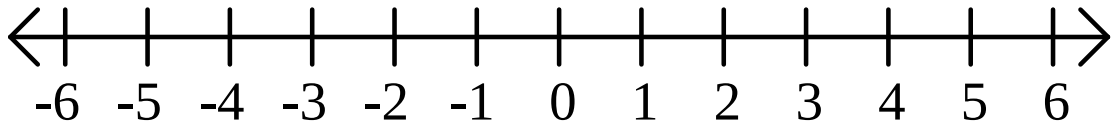
no solution



Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 2: ǿrô

Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 2: ór ô Example: **$5x + 3 \leq 13$ or $-2x + 9 < 3$**

Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 2: ór ô Example: **$5x + 3 \leq 13$ or $-2x + 9 < 3$**

Step 1: Solve each inequality.

Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 2: ǿrô Example: **$5x + 3 \leq 13$ or $-2x + 9 < 3$**

Step 1: Solve each inequality.

Step 2: Graph the **union** of the two solution sets.

$$5x + 3 \leq 13 \quad \text{or} \quad -2x + 9 < 3$$

$$-3 \quad -3 \qquad\qquad -9 \quad -9$$

$$\frac{5x}{5} \leq \frac{10}{5} \qquad\qquad \frac{-2x}{-2} < \frac{-6}{-2}$$

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Step 1: Solve each inequality.

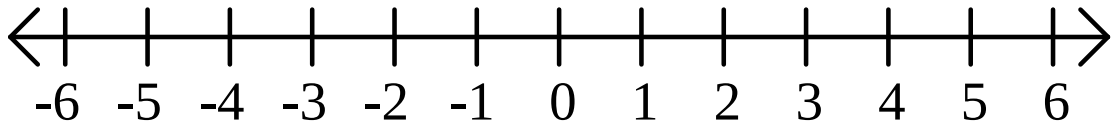
Step 2: Graph the **union** of the two solution sets.

$$5x + 3 \leq 13 \quad \text{or} \quad -2x + 9 < 3$$

$$-3 \quad -3 \qquad\qquad -9 \quad -9$$

$$\frac{5x}{5} \leq \frac{10}{5} \qquad\qquad \frac{-2x}{-2} < \frac{-6}{-2}$$

$$x \leq 2 \qquad\qquad x > 3$$



Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

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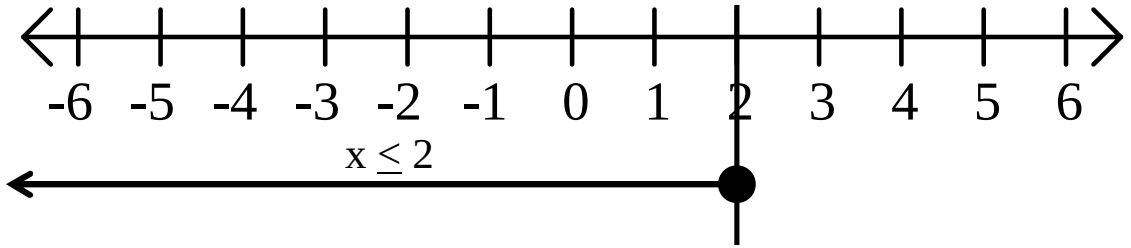

Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

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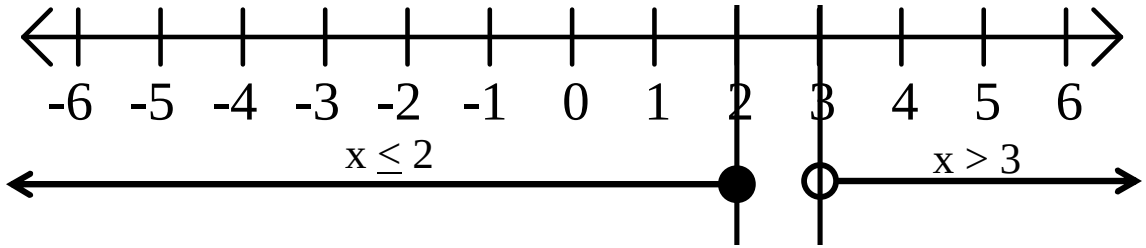

Algebra I Class Worksheet #4 Unit 4

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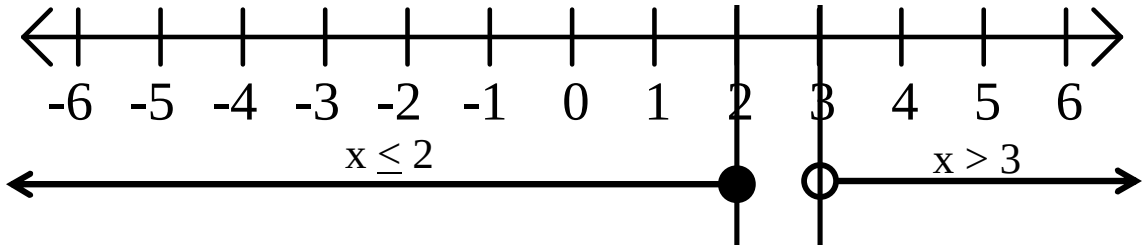

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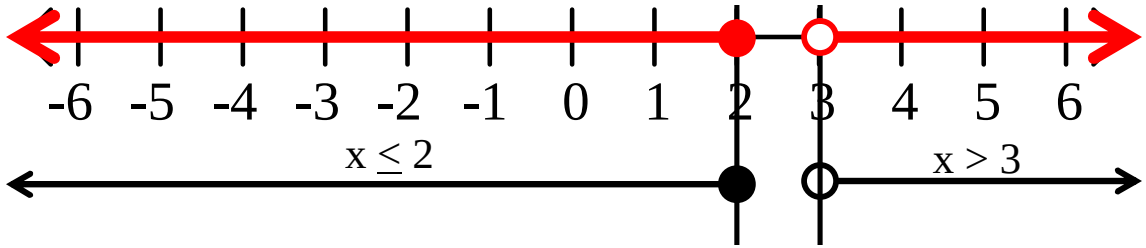

Algebra I Class Worksheet #4 Unit 4

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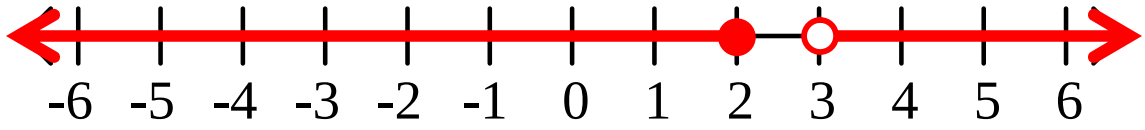

Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 2: ór ô Example: **$5x + 3 \leq 13$ or $-2x + 9 < 3$**

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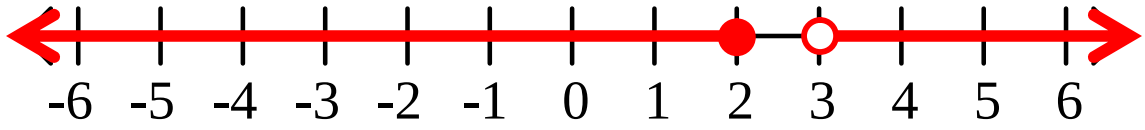

Algebra I Class Worksheet #4 Unit 4

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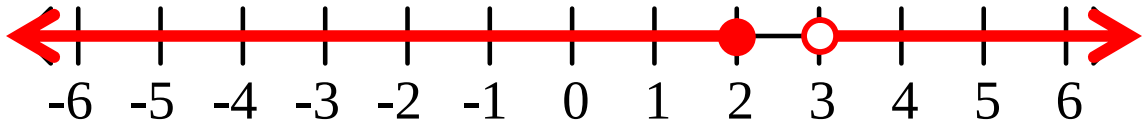
$x \leq 2$ or $x > 3$



Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 2: ćorô

Example: **$-4x + 6 \geq 14$ or $3x + 10 < 22$**

Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 2: ǿrô Example: **$-4x + 6 \geq 14$ or $3x + 10 < 22$**

Step 1: Solve each inequality.

Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 2: ór ô Example: **$-4x + 6 \geq 14$ or $3x + 10 < 22$**

Step 1: Solve each inequality. **$-4x + 6 \geq 14$ or $3x + 10 < 22$**

Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 2: ǿrô Example: **$-4x + 6 \geq 14$ or $3x + 10 < 22$**

Step 1: Solve each inequality.

$$-4x + 6 \geq 14 \quad \text{or} \quad 3x + 10 < 22$$
$$-6 \quad -6$$

Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

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Step 1: Solve each inequality.

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

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Step 1: Solve each inequality.

$$-4x + 6 \geq 14 \quad \text{or} \quad 3x + 10 < 22$$
$$-6 \quad -6$$
$$-4x \geq 8$$

Algebra I Class Worksheet #4 Unit 4

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$$\frac{-4x}{-4} \geq \frac{8}{-4}$$

Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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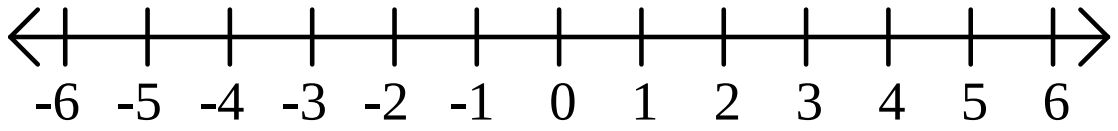

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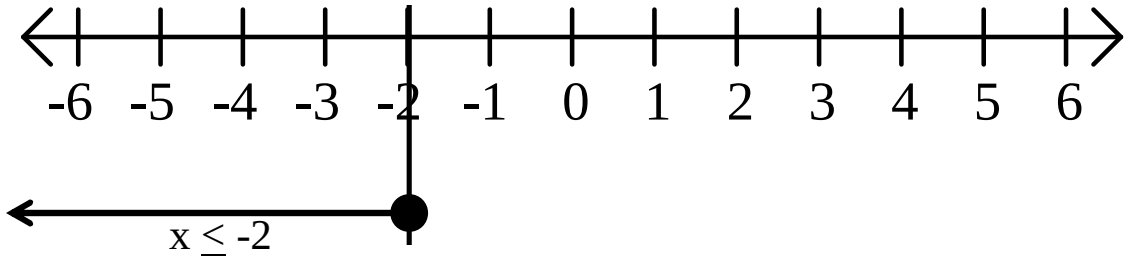

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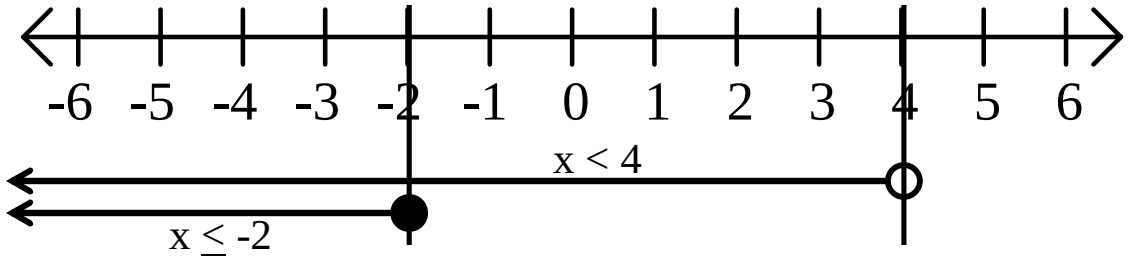

Algebra I Class Worksheet #4 Unit 4

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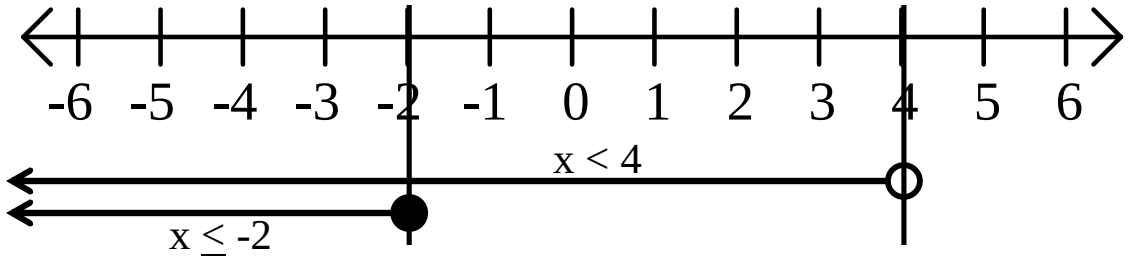

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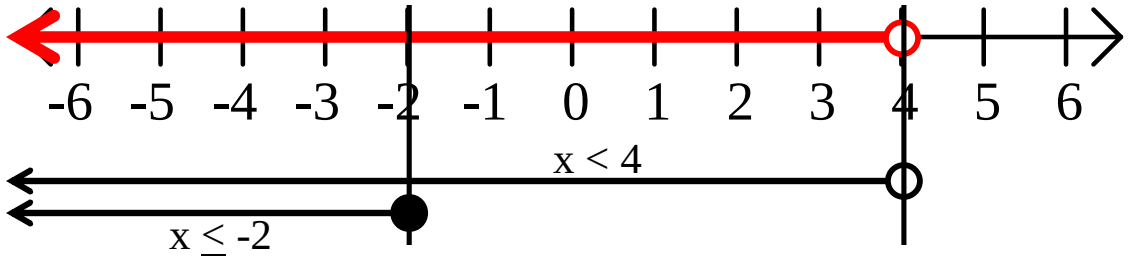

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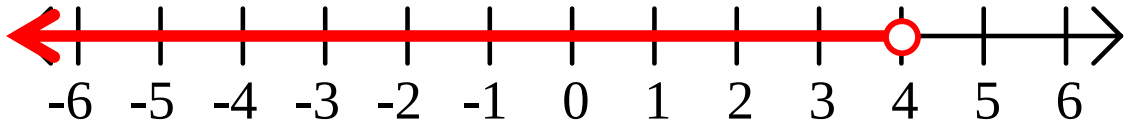

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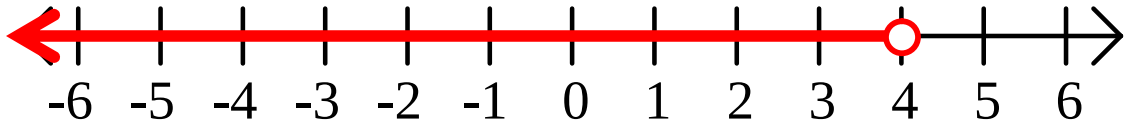

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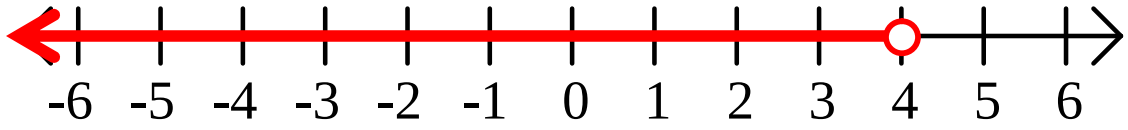

Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 2: ǿrô Example: **2x – 1 > -5 or 5x + 3 > 18**

Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 2: ǿrô Example: **2x – 1 > -5 or 5x + 3 > 18**

Step 1: Solve each inequality.

Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 2: ǿrô Example: **2x – 1 > -5 or 5x + 3 > 18**

Step 1: Solve each inequality.

2x – 1 > -5 or 5x + 3 > 18
+1 +1

Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 2: ǿrô Example: **2x – 1 > -5 or 5x + 3 > 18**

Step 1: Solve each inequality.

2x – 1 > -5 or 5x + 3 > 18

+1 +1

2x

Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

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2x >

Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 2: ǿrô Example: **2x – 1 > -5 or 5x + 3 > 18**

Step 1: Solve each inequality.

2x – 1 > -5 or 5x + 3 > 18

+1 +1

2x > -4

Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 2: ćorô

Example: **$2x - 1 > -5$ or $5x + 3 > 18$**

Step 1: Solve each inequality.

$$\begin{array}{rcl} 2x - 1 & > & -5 \\ +1 & & +1 \\ \hline 2x & > & -4 \\ \frac{}{2} & & \frac{}{2} \\ x & > & -2 \end{array} \quad \text{or} \quad \begin{array}{rcl} 5x + 3 & > & 18 \\ -3 & & -3 \\ \hline 5x & > & 15 \end{array}$$

Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

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$$\begin{array}{l|l} 2x - 1 > -5 & 5x + 3 > 18 \\ +1 \quad +1 & -3 \quad -3 \\ \hline \frac{2x}{2} > \frac{-4}{2} & \frac{5x}{5} > \frac{15}{5} \\ x > -2 & x > \end{array} \quad \text{or}$$

Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 2: ćorô

Example: **$2x - 1 > -5$ or $5x + 3 > 18$**

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Step 2: Graph the **union** of the two solution sets.

$$\begin{array}{rcl} 2x - 1 & > & -5 \\ +1 & & +1 \\ \hline \frac{2x}{2} & > & \frac{-4}{2} \\ x & > & -2 \end{array} \quad \text{or} \quad \begin{array}{rcl} 5x + 3 & > & 18 \\ -3 & & -3 \\ \hline \frac{5x}{5} & > & \frac{15}{5} \\ x & > & 3 \end{array}$$

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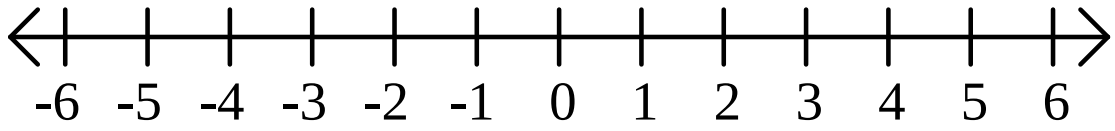

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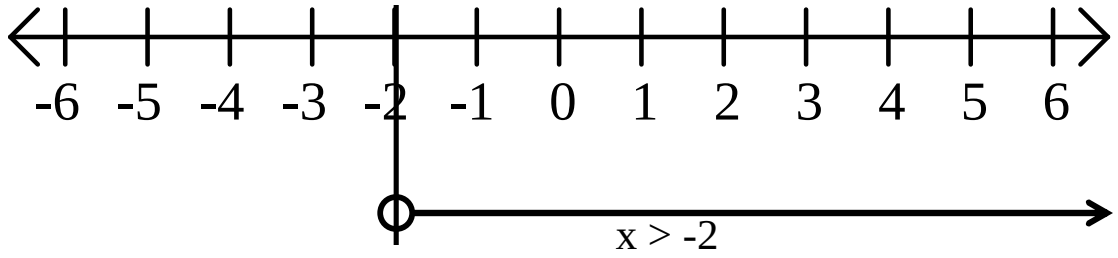

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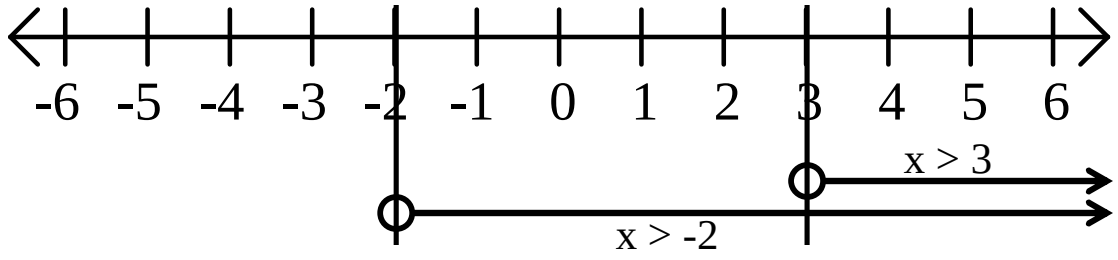

Algebra I Class Worksheet #4 Unit 4

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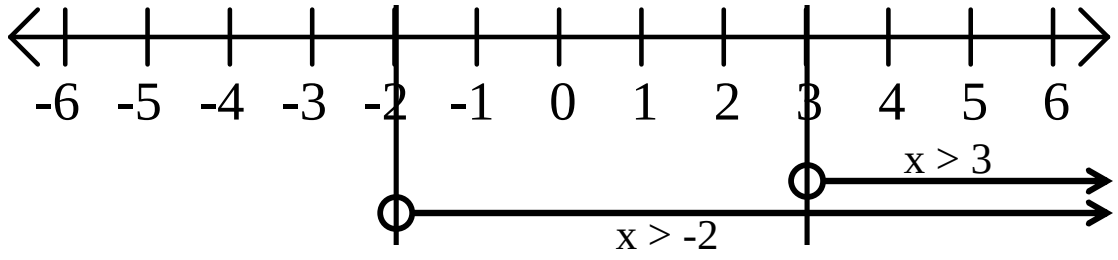

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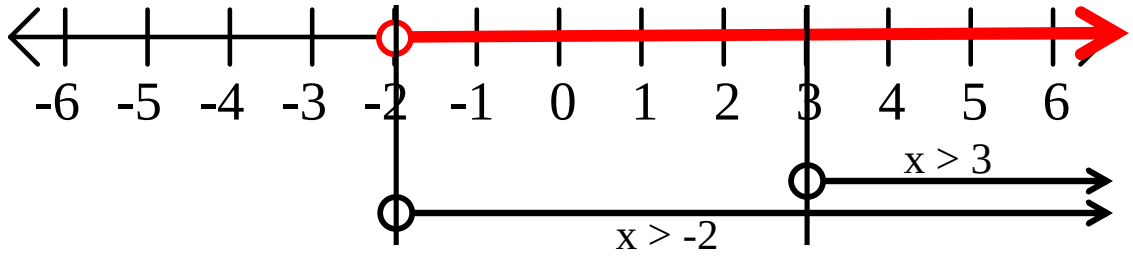

Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

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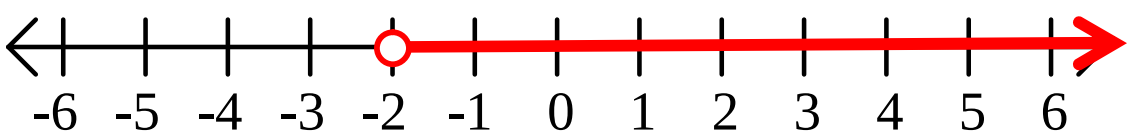

Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

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Example: **$2x - 1 > -5$ or $5x + 3 > 18$**

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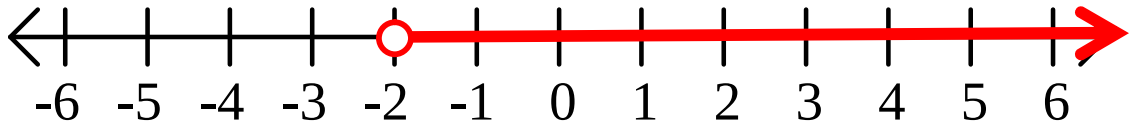

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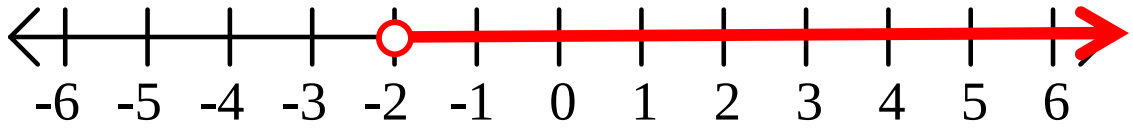

Algebra I Class Worksheet #4 Unit 4

Solving Compound Inequalities

Type 2: ór ô Example: **x + 1 < 5 or 3x > -9**

Algebra I Class Worksheet #4 Unit 4

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Algebra I Class Worksheet #4 Unit 4

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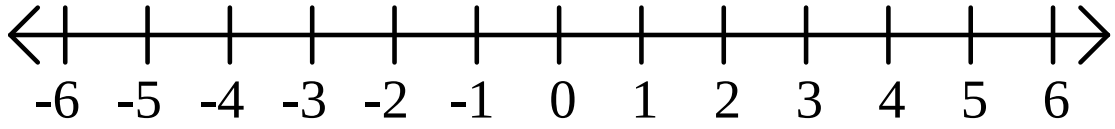

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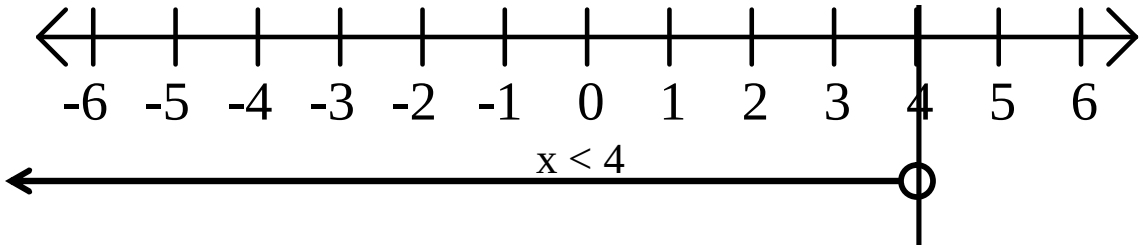

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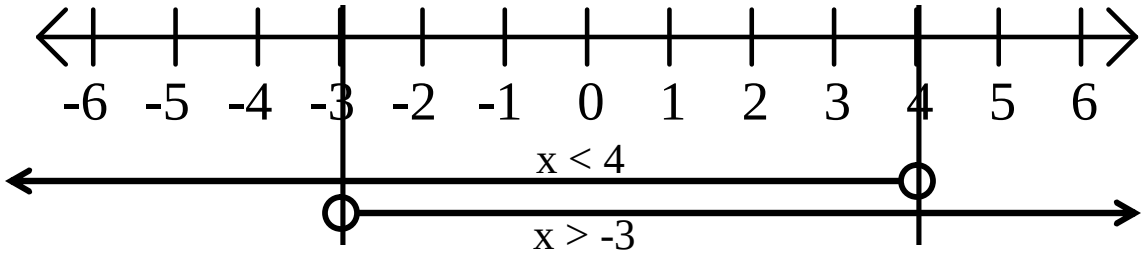

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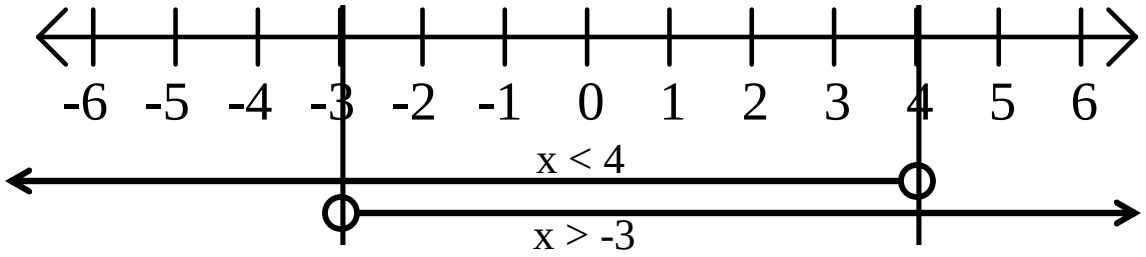

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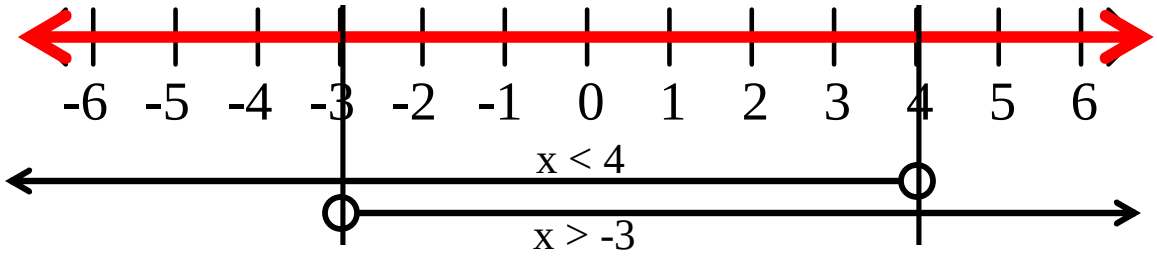

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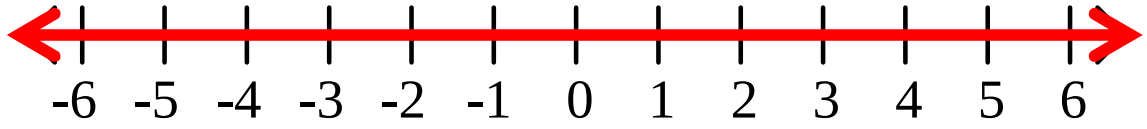

Algebra I Class Worksheet #4 Unit 4

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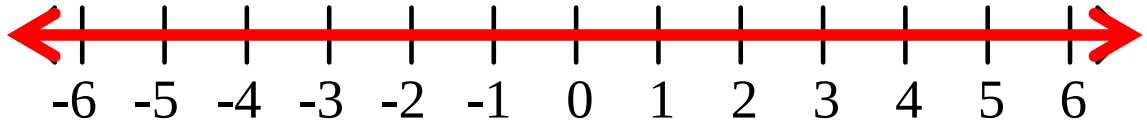

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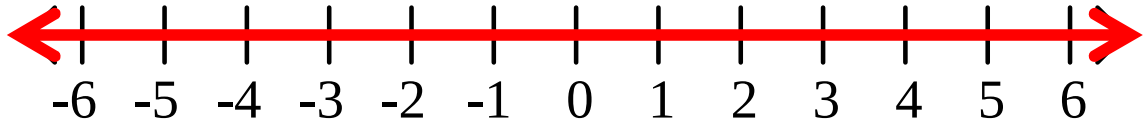
x can be any number.



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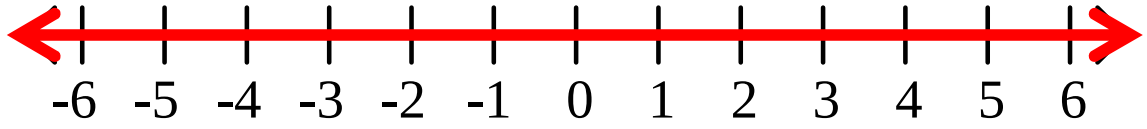
x can be any number.

Good luck on your homework !!