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

## Algebra I Class Worksheet \#4 Unit 4

Continued Inequalities

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## Continued Inequalities

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

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Continued Inequalities

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## Continued Inequalities

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\text { Example: } \quad-4<\mathrm{x} \leq-1
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This continued inequality says 2 things about the variable x .
First: $-4<x$ means $\mathbf{x}$ is greater than $\mathbf{- 4}$.
Second:

## Algebra I Class Worksheet \#4 Unit 4

## Continued Inequalities

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\text { Example: } \quad-4<x \leq-1
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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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This continued inequality says 2 things about the variable x .
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Continued inequalities are ñread from the middleò.

## Algebra I Class Worksheet \#4 Unit 4

## Continued Inequalities

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\text { Example: } \quad-4<\mathrm{x} \leq-1
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$-4<x \leq-1$

## 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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Here is the graph.


## Algebra I Class Worksheet \#4 Unit 4

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Here is the graph.


## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities
Example: $\quad-5<2 x-3<1$

## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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

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

## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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

## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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

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

Step 1:

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

## Algebra I Class Worksheet \#4 Unit 4

## Solving Continued Inequalities

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

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

Step 1: Add 3 to each part.

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

## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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

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

Step 1: Add 3 to each part.

$$
\begin{array}{r}
-5<2 x-3<1 \\
+3 r+3+3
\end{array}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Continued Inequalities

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

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

Step 1: Add 3 to each part.

\[

\]

## Algebra I Class Worksheet \#4 Unit 4

## Solving Continued Inequalities

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

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

Step 1: Add 3 to each part.

\[

\]

## Algebra I Class Worksheet \#4 Unit 4

## Solving Continued Inequalities

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

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

Step 1: Add 3 to each part.

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

## Algebra I Class Worksheet \#4 Unit 4

## Solving Continued Inequalities

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

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

Step 1: Add 3 to each part.

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

## Algebra I Class Worksheet \#4 Unit 4

## Solving Continued Inequalities

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

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

Step 1: Add 3 to each part.

$$
\begin{array}{r}
-5<2 x-3<1 \\
+3 \quad+3+3 \\
\hline-2<2 x<4
\end{array}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Continued Inequalities

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

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

Step 1: Add 3 to each part.
Step 2:

$$
\begin{array}{r}
-5<2 x-3<1 \\
+3 \quad+3+3 \\
\hline-2<2 x<4
\end{array}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Continued Inequalities

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

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

Step 1: Add 3 to each part.

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

Step 2: Divide each part by 2.

$$
\frac{+3 \quad+3+3}{-2<2 x<4}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Continued Inequalities

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

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

Step 1: Add 3 to each part.
Step 2: Divide each part by 2.

$$
\begin{array}{r}
-5<2 x-3<1 \\
+3 \quad+3+3 \\
\hline \frac{-2}{2}<\frac{2 x}{2}<\frac{4}{2}
\end{array}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Continued Inequalities

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

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

Step 1: Add 3 to each part.
Step 2: Divide each part by 2.

$$
\begin{aligned}
-5 & <2 x-3<1 \\
+3 & +3
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Continued Inequalities

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

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

Step 1: Add 3 to each part.
Step 2: Divide each part by 2.

$$
\begin{aligned}
& \begin{array}{r}
-5<2 x-3<1 \\
+3 \\
+3 \\
-\frac{2}{2}<\frac{2 x}{2}<\frac{4}{2} \\
-1<
\end{array} \\
& \hline-1
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Continued Inequalities

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

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

Step 1: Add 3 to each part.
Step 2: Divide each part by 2.

$$
\begin{aligned}
&-5 \begin{array}{r}
2 x \\
+3
\end{array} \quad+1 \\
&+3+3 \\
& \hline-\frac{2}{2}<\frac{2 x}{2}<\frac{4}{2} \\
&-1<x
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Continued Inequalities

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\text { Example: } \quad-5<2 x-3<1
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Step 1: Add 3 to each part.
Step 2: Divide each part by 2.

$$
\begin{aligned}
& -5<2 x-3<1 \\
& +3 \quad+3+3 \\
& \hline-\frac{2}{2}<\frac{2 x}{2}<\frac{4}{2} \\
& -1<x<
\end{aligned}
$$

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Step 1: Add 3 to each part.
Step 2: Divide each part by 2.

$$
\begin{gathered}
-5<2 x-3<1 \\
+3 \quad+3+3 \\
\hline-\frac{2}{2}<\frac{2 x}{2}<\frac{4}{2} \\
-1<x<2
\end{gathered}
$$

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Step 1: Add 3 to each part.
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\begin{gathered}
-5<2 x-3<1 \\
+3 \quad+3+3 \\
\hline-\frac{2}{2}<\frac{2 x}{2}<\frac{4}{2} \\
-1<x<2
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 4

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Step 1: Add 3 to each part.

$$
+3 \quad+3+3
$$

Step 2: Divide each part by 2.

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

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

$$
-1<x<2
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Continued Inequalities

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

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

Step 1: Add 3 to each part.

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

$$
+3+3+3
$$

Step 2: Divide each part by 2.
$\frac{-2}{2}<\frac{2 x}{2}<\frac{4}{2}$
$-1<x<2$
Step 3: Graph the solution set.

| $-5<2 x-3<1$ |
| :---: |
| $+3 \quad+3+3$ |
| $-\frac{2}{2}<\frac{2 x}{2}<\frac{4}{2}$ |
| $-1<x<2$ |

## Algebra I Class Worksheet \#4 Unit 4

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Step 1: Add 3 to each part.

| $-5<2 x-3<1$ |
| :---: |
| $+3 \quad+3+3$ |
| $-\frac{2}{2}<\frac{2 x}{2}<\underline{4}$ |
| $-1<x<2$ |



## Algebra I Class Worksheet \#4 Unit 4

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Step 1: Add 3 to each part.

$$
\begin{gathered}
-5<2 x-3<1 \\
+3 \quad+3+3 \\
\hline-\frac{2}{2}<\frac{2 x}{2}<\frac{4}{2} \\
-1<x<2
\end{gathered}
$$

Step 2: Divide each part by 2.


## Algebra I Class Worksheet \#4 Unit 4

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\text { Example: } \quad-5<2 x-3<1
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Solving continued inequalities is just like solving other inequalities except there are 3 ̣́artsô

Step 1: Add 3 to each part.

| $-5<2 x-3<1$ |
| :---: |
| $+3 \quad+3+3$ |
| $-\frac{-2}{2}<\frac{2 x}{2}<\underline{4}$ |
| $-1<x<2$ |



## Algebra I Class Worksheet \#4 Unit 4

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| $-5<2 x-3<1$ |
| :---: |
| $+3 \quad+3+3$ |
| $-\frac{2}{2}<\frac{2 x}{2}<\underline{4}$ |
| $-1<x<2$ |



## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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

## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

$$
\text { Example: } \quad \begin{aligned}
-9 \leq 3 x & +6 \leq 12 \\
-9 & \leq 3 x+6 \leq 12
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities
Step 1:

$$
\text { Example: } \quad \begin{aligned}
-9 \leq 3 x+6 & \leq 12 \\
-9 & \leq 3 x+6 \leq 12
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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

Step 1: Subtract 6 from each part.

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

## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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

Step 1: Subtract 6 from each part. $\quad \begin{array}{r}\mathbf{- 9} \leq \mathbf{3 x}+\mathbf{6} \leq \mathbf{1 2} \\ -6\end{array}$

## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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



## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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

Step 1: Subtract 6 from each part. $\begin{gathered}-9 \leq 3 x+6 \leq 12 \\ -6 \quad-6-6\end{gathered}$

## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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

Step 1: Subtract 6 from each part. $\begin{array}{r}\mathbf{- 9} \leq 3 x+6 \leq 12 \\ -6 \quad-6 \quad-6 \\ \hline \mathbf{- 1 5} \leq \mathbf{3 x}\end{array}$

## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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

Step 1: Subtract 6 from each part. $\begin{array}{r}\mathbf{- 9} \leq 3 x+6 \leq 12 \\ -6 \quad-6 \leq-6\end{array}$

## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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$$

Step 1: Subtract 6 from each part. $\begin{array}{r}\mathbf{- 9} \leq 3 x+6 \leq 12 \\ -6 \quad-6 \leq-6\end{array}$

## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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

Step 1: Subtract 6 from each part.

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

## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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

Step 1: Subtract 6 from each part. $\quad \begin{array}{r}\mathbf{- 9} \leq \mathbf{3 x}+6 \leq \mathbf{6} \\ -6\end{array}$
Step 2: Divide each part by $3 . \quad \mathbf{- 1 5} \leq \mathbf{3 x} \leq 6$

## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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

Step 1: Subtract 6 from each part. $\quad \begin{array}{r}\mathbf{- 9} \leq \mathbf{3 x}+\mathbf{6} \leq \mathbf{1 2} \\ -6\end{array}$
Step 2: Divide each part by 3 .

$$
-\frac{15}{3} \leq \frac{3 x}{3} \leq \frac{6}{3}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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

Step 1: Subtract 6 from each part. $\quad \begin{array}{r}\mathbf{- 9} \leq \mathbf{3 x}+\mathbf{6} \leq \mathbf{1 2} \\ -6\end{array}$
Step 2: Divide each part by 3.
$-\frac{15}{3} \leq \frac{3 x}{3} \leq \frac{6}{3}$
-5

## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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

Step 1: Subtract 6 from each part. $\quad \begin{array}{r}\mathbf{- 9} \leq 3 x+6 \\ -\mathbf{6} \\ -\mathbf{6} \quad \mathbf{1 2} \\ -6\end{array}$
Step 2: Divide each part by 3.

$$
\begin{aligned}
& -\frac{15}{3} \leq \frac{3 x}{3} \leq \frac{6}{3} \\
& -5 \leq
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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

Step 1: Subtract 6 from each part. $\quad \begin{array}{r}\mathbf{- 9} \leq \mathbf{3 x}+\mathbf{6} \leq \mathbf{6} \\ -\mathbf{6}\end{array}$
Step 2: Divide each part by 3.

$$
\begin{gathered}
-\frac{15}{3} \leq \frac{3 x}{3} \leq \frac{6}{3} \\
-5 \leq x
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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

Step 1: Subtract 6 from each part. $\quad \begin{array}{r}\mathbf{- 9} \leq \mathbf{3 x}+6 \leq \mathbf{6} \\ -6\end{array}$
Step 2: Divide each part by 3.

$$
\begin{gathered}
-\frac{15}{3} \leq \frac{3 x}{3} \leq \frac{6}{3} \\
-5 \leq x \leq
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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

Step 1: Subtract 6 from each part. $\quad \begin{array}{r}\mathbf{- 9} \leq \mathbf{3 x}+\mathbf{6} \leq \mathbf{1 2} \\ -6\end{array}$
Step 2: Divide each part by 3.

$$
\begin{gathered}
-\frac{15}{3} \leq \frac{3 x}{3} \leq \frac{6}{3} \\
-5 \leq x \leq 2
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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

Step 1: Subtract 6 from each part. $\quad \begin{array}{r}\mathbf{- 9} \leq \mathbf{3 x}+\mathbf{6} \leq \mathbf{1 2} \\ -6\end{array}$
Step 2: Divide each part by 3 .

$$
\begin{array}{r}
-\frac{15}{3} \leq \frac{3 x}{3} \leq \frac{6}{3} \\
-5 \leq x \leq 2
\end{array}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Continued Inequalities

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

Step 1: Subtract 6 from each part.

$$
\begin{array}{r}
-9 \\
-6 \\
-6 x+6 \leq 12 \\
-6
\end{array}
$$

$$
-\frac{15}{3} \leq \frac{3 x}{3} \leq \frac{6}{3}
$$

Step 3:
$-5 \leq x \leq 2$

## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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

Step 1: Subtract 6 from each part.

$$
\begin{array}{r}
-9 \\
-6 \\
-6 x+6 \leq 12 \\
-6
\end{array}
$$

$$
-\frac{15}{3} \leq \frac{3 x}{3} \leq \frac{6}{3}
$$

Step 3: Graph the solution set.

## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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

Step 1: Subtract 6 from each part. $\quad \begin{array}{r}\mathbf{- 9} \leq \mathbf{9 x}+6 \leq \mathbf{1 2} \\ -6 \quad-6 \\ -6\end{array}$
Step 2: Divide each part by 3.

$$
-\frac{15}{3} \leq \frac{3 x}{3} \leq \frac{6}{3}
$$

Step 3: Graph the solution set.

$$
-5 \leq x \leq 2
$$



## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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

Step 1: Subtract 6 from each part. $\quad \begin{array}{r}\mathbf{- 9} \leq \mathbf{9 x}+6 \leq \mathbf{1 2} \\ -6 \quad-6 \\ -6\end{array}$
Step 2: Divide each part by 3.

$$
-\frac{15}{3} \leq \frac{3 x}{3} \leq \frac{6}{3}
$$

Step 3: Graph the solution set.

$$
-5 \leq x \leq 2
$$



## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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

Step 1: Subtract 6 from each part. $\quad \begin{array}{r}\mathbf{- 9} \leq \mathbf{9 x}+6 \leq \mathbf{1 2} \\ -6 \quad-6 \\ -6\end{array}$
Step 2: Divide each part by 3.

$$
-\frac{15}{3} \leq \frac{3 x}{3} \leq \frac{6}{3}
$$

Step 3: Graph the solution set.

$$
-5 \leq x \leq 2
$$



## Algebra I Class Worksheet \#4 Unit 4

Solving Continued Inequalities

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

Step 1: Subtract 6 from each part. $\quad \begin{array}{r}\mathbf{- 9} \leq \mathbf{3 x}+\mathbf{6} \leq \mathbf{1 2} \\ -6\end{array}$
Step 2: Divide each part by 3.

$$
-\frac{15}{3} \leq \frac{3 x}{3} \leq \frac{6}{3}
$$

Step 3: Graph the solution set.

$$
-5 \leq x \leq 2
$$



## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ándô

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: áandô Example: $\mathbf{x}+\mathbf{1}<\mathbf{5}$ and $\mathbf{3 x}>\mathbf{- 9}$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ándô Example: $\mathbf{x + 1}<\mathbf{5}$ and $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ándô Example: $\mathbf{x + 1}<\mathbf{5}$ and $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

$$
x+1<5 \text { and } 3 x>-9
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ándô Example: $\mathbf{x + 1}<\mathbf{5}$ and $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& x+1<5 \text { and } 3 x>-9 \\
& -1-1
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ándô Example: $\mathbf{x + 1}<\mathbf{5}$ and $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& x+1<5 \text { and } 3 x>-9 \\
& \frac{-1-1}{x}
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ándô Example: $\mathbf{x + 1}<\mathbf{5}$ and $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& x+1<5 \text { and } 3 x>-9 \\
& \frac{-1-1}{x<}
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ándô Example: $\mathbf{x + 1}<\mathbf{5}$ and $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& x+1<5 \text { and } 3 x>-9 \\
& \frac{-1-1}{x<4}
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ándô Example: $\mathbf{x + 1}<\mathbf{5}$ and $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& x+1<5 \\
& \frac{-1-1}{x<4}
\end{aligned} \text { and } \frac{3 x}{3}>\frac{-9}{3}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ándô Example: $\mathbf{x + 1}<\mathbf{5}$ and $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

$$
\begin{array}{lll}
x+1<5 & \text { and } & \frac{3 x}{3}>-\frac{-9}{3} \\
\frac{-1-1}{x<4} & & x
\end{array}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ándô Example: $\mathbf{x + 1}<\mathbf{5}$ and $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

$$
\begin{array}{ccc}
x+1<5 & \text { and } & \frac{3 x}{3}> \\
\begin{array}{c}
-1-1 \\
3 \\
\hline x<4
\end{array} & x>
\end{array}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ándô Example: $\mathbf{x + 1}<\mathbf{5}$ and $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

$$
\begin{array}{ccc}
x+1<5 & \text { and } & \frac{3 x}{3}>-\frac{-9}{3} \\
\begin{array}{cc}
-1 & -1
\end{array} & \frac{x}{x}<4 & x>-3
\end{array}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ándô Example: $\mathbf{x + 1}<\mathbf{5}$ and $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.
Step 2:

$$
\begin{array}{cc}
x+1<5 & \text { and } \\
\frac{3 x}{3}>-\frac{-9}{3} \\
\cline { 1 - 1 } & x<4
\end{array} \quad x>-3
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ándô Example: $\mathbf{x + 1}<\mathbf{5}$ and $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.
Step 2: Graph the intersection of

$$
\left.\begin{array}{ccc}
x+1<5 & \text { and } & \frac{3 x}{3}>-\frac{9}{3} \\
\frac{-1}{}-1
\end{array}\right) \quad \begin{gathered}
x<4
\end{gathered} \quad x>-3
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ándô Example: $\quad \mathbf{x}+\mathbf{1}<\mathbf{5}$ and $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.
Step 2: Graph the intersection of

$$
\left.\begin{array}{ccc}
x+1<5 & \text { and } & \frac{3 x}{3}>-\frac{9}{3} \\
\frac{-1}{}-1
\end{array}\right) \quad \begin{gathered}
x<4
\end{gathered}
$$ the two solution sets.



## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: áandô Example: $\mathbf{x}+\mathbf{1}<\mathbf{5}$ and $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.
Step 2: Graph the intersection of the two solution sets.


## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ándô Example: $\mathbf{x + 1}<\mathbf{5}$ and $3 x>-9$

Step 1: Solve each inequality.

$$
\left.\begin{array}{ccc}
x+1<5 & \text { and } & \frac{3 x}{3}>-\frac{9}{3} \\
\frac{-1}{}-1
\end{array}\right) \quad \begin{gathered}
x<4
\end{gathered} \quad x>-3
$$ the two solution sets.



## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ándô Example: $\mathbf{x + 1}<\mathbf{5}$ and $3 x>-9$

Step 1: Solve each inequality.

$$
\begin{aligned}
& x+1<5 \text { and } \frac{3 x}{3}>-\frac{9}{3} \\
& \frac{-1<-1}{x<4} \text { and } x>-3
\end{aligned}
$$ the two solution sets.



## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: áandô Example: $\quad \mathbf{x}+\mathbf{1}<\mathbf{5}$ and $\mathbf{3 x}>-\mathbf{9}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& x+1<5 \text { and } \frac{3 x}{3}>-\frac{9}{3} \\
& \frac{-1<1}{x<4} \text { and } x>-3
\end{aligned}
$$

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


## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: áandô Example: $\quad \mathbf{x}+\mathbf{1}<\mathbf{5}$ and $\mathbf{3 x}>-\mathbf{9}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& x+1<5 \text { and } \frac{3 x}{3}>-\frac{9}{3} \\
& \frac{-1<-1}{x<4} \text { and } x>-3
\end{aligned}
$$

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


## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: áandô Example: $\quad \mathbf{x}+\mathbf{1}<\mathbf{5}$ and $\mathbf{3 x}>-\mathbf{9}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& x+1<5 \text { and } \frac{3 x}{3}>-\frac{9}{3} \\
& \frac{-1<-1}{x<4} \text { and } x>-3
\end{aligned}
$$

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

Step 3:


## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: áandô Example: $\mathbf{x}+\mathbf{1}<\mathbf{5}$ and $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& x+1<5 \text { and } \frac{3 x}{3}>-\frac{9}{3} \\
& \frac{-1<-1}{x<4} \text { and } x>-3
\end{aligned}
$$

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

## Solving Compound Inequalities

Type 1: áandô Example: $\mathbf{x}+\mathbf{1}<\mathbf{5}$ and $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& x+1<5 \text { and } \frac{3 x}{3}>-\frac{9}{3} \\
& \frac{-1<1}{x<4} \text { and } x>-3
\end{aligned}
$$

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

Step 3: Express the final solution in

$$
-3<x<4
$$ terms of x in simplest form.



## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ćandô Example: $2 x-1>\mathbf{- 5}$ and $5 x+3>18$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: áandô Example: $2 \mathrm{x}-\mathbf{1}>\mathbf{- 5}$ and $5 \mathrm{x}+\mathbf{3}>\mathbf{1 8}$

Step 1: Solve each inequality.

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ándô Example: $\mathbf{2 x}-\mathbf{1}>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ándô Example: $\mathbf{2 x}-\mathbf{1}>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

$$
\begin{aligned}
& 2 x-1>-5 \text { and } 5 x+3>18 \\
& +1+1
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ándô Example: $\mathbf{2 x}-\mathbf{1}>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

$$
\frac{\begin{array}{l}
2 x-1>-5 \\
+1+1
\end{array}}{2 x} \text { and } 5 x+3>18
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ándô Example: $\mathbf{2 x}-\mathbf{1}>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

$$
\begin{aligned}
& \frac{2 x-1>-5}{+1+1} \text { and } 5 x+3>18 \\
& 2 x>
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ándô Example: $\mathbf{2 x}-\mathbf{1}>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

$$
\begin{aligned}
& \frac{2 x-1>-5}{+1+1} \text { and } 5 x+3>18 \\
& 2 x>-4
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ándô Example: $\mathbf{2 x}-\mathbf{1}>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

$$
\begin{aligned}
& \frac{2 x-1>-5}{+1}+1
\end{aligned} \text { and } 5 x+3>18_{\frac{2 x}{2}>-\frac{4}{2}}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ándô Example: $\mathbf{2 x}-\mathbf{1}>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

$$
\begin{aligned}
& \begin{array}{l}
2 x-1>-5 \\
+1 \\
+1
\end{array} \\
& \hline \frac{2 x}{2}>-\frac{4}{2} \\
& x
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ándô Example: $\mathbf{2 x}-\mathbf{1}>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ándô Example: $2 x-1>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

$$
\begin{aligned}
& \begin{array}{l}
2 x-1>-5 \\
+1 \\
+1
\end{array} \\
& \hline \frac{2 x}{2}>-\frac{4}{2} \\
& x>-2
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ándô Example: $2 x-1>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

$$
\begin{gathered}
2 x-1>-5 \text { and } 5 x+3>18 \\
+1+1 \\
\hline \frac{2 x}{2}>-\frac{4}{2} \\
x>-2
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ándô Example: $2 x-1>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ándô Example: $2 x-1>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ándô Example: $\mathbf{2 x}-\mathbf{1}>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ándô Example: $\mathbf{2 x}-\mathbf{1}>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: áandô Example: $2 x-1>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: áandô Example: $2 x-1>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ándô Example: $\mathbf{2 x}-\mathbf{1}>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ándô Example: $\mathbf{2 x}-\mathbf{1}>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ándô Example: $\mathbf{2 x}-\mathbf{1}>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.
Step 2: Graph the intersection of the two solution sets.

$$
\begin{array}{ccc}
2 x-1>-5 & \text { and } & 5 x+3>18 \\
+1+1
\end{array} \quad \begin{gathered}
-3-3 \\
\overline{2}>-\frac{4}{2}
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: áandô Example: $2 x-1>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

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



## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: áandô Example: $2 x-1>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

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



## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: áandô Example: $2 x-1>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

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



## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: áandô Example: $2 x-1>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

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



## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: áandô Example: $2 x-1>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

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



## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: áandô Example: $2 x-1>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

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



## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: áandô Example: $2 x-1>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

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

Step 3:


## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: áandô Example: $2 x-1>\mathbf{- 5}$ and $5 x+3>18$

Step 1: Solve each inequality.

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

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


## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ándô Example: $2 \mathrm{x}-\mathbf{1}>\mathbf{- 5}$ and $5 \mathrm{x}+3>\mathbf{1 8}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& 2 x-1>-5 \text { and } 5 x+3>18 \\
& \frac{+1+1}{\frac{2 x}{\overline{2}}>\frac{-4}{2}} \quad \frac{-3-3}{\frac{5 x}{5}>\frac{15}{5}} \\
& x>-2 \text { and } x>3 \\
& \mathrm{x}>3
\end{aligned}
$$

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


## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: óandô Example: $-\mathbf{4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $3 x+10<\mathbf{2 2}$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ándô Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $3 x+10<\mathbf{2 2}$

Step 1: Solve each inequality.

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 1: óandô Example: $-\mathbf{4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $3 x+10<\mathbf{2 2}$

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: óandô Example: $-\mathbf{4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $3 x+10<\mathbf{2 2}$

Step 1: Solve each inequality.

$$
\begin{aligned}
&-4 x+6 \geq 14 \\
&-6 \text { and } 3 x+10<22 \\
&-6
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 1: ćandô Example: $-\mathbf{4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $3 x+10<\mathbf{2 2}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& \frac{-4 x+6 \geq 14}{} \begin{array}{l}
-6-6
\end{array} \\
& -4 x
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 1: áandô Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $3 x+10<22$

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { and } 3 x+10<22 \\
& \frac{-6}{-4 x} \geq
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 1: áandô Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $3 x+10<22$

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { and } 3 x+10<22 \\
& \begin{array}{c}
-6 \geq-6
\end{array} \\
& \hline-4 x \geq 8
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ćandô Example: $-\mathbf{4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $3 x+10<\mathbf{2 2}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& \begin{array}{l}
-4 x+6 \geq 14 \\
-6 \\
-6
\end{array} \text { and } 3 x+10<22 \\
& \frac{-4 x}{-4} \geq \frac{8}{-4}
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ćandô $\quad$ Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $\mathbf{3 x}+\mathbf{1 0}<\mathbf{2 2}$

Step 1: Solve each inequality.

$$
\begin{aligned}
&-4 x+6 \geq 14 \text { and } 3 x+10<22 \\
&-6-6 \\
& \frac{-4 x}{-4} \geq \frac{8}{-4} \\
& x
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: áandô Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $3 x+10<22$

Step 1: Solve each inequality.

$$
\begin{gathered}
-4 x+6 \geq 14 \text { and } 3 x+10<22 \\
-6=-6 \\
\hline-4 x \geq \frac{8}{-4} \\
x \leq
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: áandô Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $3 x+10<22$

Step 1: Solve each inequality.

$$
\begin{aligned}
-4 x+6 & \geq 14 \text { and } 3 x+10<22 \\
-6 & -6
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ćandô $\quad$ Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $\mathbf{3 x}+\mathbf{1 0}<\mathbf{2 2}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { and } 3 x+10<22 \\
& -6^{-}-6 \quad-10-10 \\
& \frac{-4 x}{-4} \geq \frac{8}{-4} \\
& \mathrm{x} \leq-\mathbf{2}
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ćandô $\quad$ Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $\mathbf{3 x}+\mathbf{1 0}<\mathbf{2 2}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { and } 3 x+10<22 \\
& \frac{-6^{-}-6}{\frac{-4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{3 x} \\
& \mathrm{x} \leq-\mathbf{2}
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ćandô $\quad$ Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $\mathbf{3 x}+\mathbf{1 0}<\mathbf{2 2}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { and } 3 x+10<22 \\
& \frac{-6^{-}-6}{\frac{-4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{3 x<} \\
& \mathrm{x} \leq-\mathbf{2}
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ćandô $\quad$ Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $\mathbf{3 x}+\mathbf{1 0}<\mathbf{2 2}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { and } 3 x+10<22 \\
& \frac{-6^{-}-6}{\frac{-4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{3 x<12} \\
& \mathrm{x} \leq-\mathbf{2}
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ćandô $\quad$ Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $\mathbf{3 x}+\mathbf{1 0}<\mathbf{2 2}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { and } 3 x+10<22 \\
& \frac{-6^{-}-6}{\frac{-4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{\frac{3 x}{3}<\frac{12}{3}} \\
& \mathrm{x} \leq-\mathbf{2}
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ćandô $\quad$ Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $\mathbf{3 x}+\mathbf{1 0}<\mathbf{2 2}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { and } 3 x+10<22 \\
& \frac{-6^{-}-6}{\frac{-4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{\frac{3 x}{3}<\frac{12}{3}} \\
& \mathrm{x} \leq-\mathbf{2} \\
& \text { x }
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ćandô $\quad$ Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $\mathbf{3 x}+\mathbf{1 0}<\mathbf{2 2}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { and } 3 x+10<22 \\
& \frac{-6-6}{\frac{-4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{\frac{3 x}{3}<\frac{12}{3}} \\
& x \leq-2 \\
& \mathbf{x}<
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ćandô $\quad$ Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $\mathbf{3 x}+\mathbf{1 0}<\mathbf{2 2}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { and } 3 x+10<22 \\
& \frac{-6-6}{\frac{-4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{\frac{3 x}{3}<\frac{12}{3}} \\
& x \leq-2 \\
& \mathrm{x}<4
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: áandô Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $\mathbf{3 x}+\mathbf{1 0}<\mathbf{2 2}$

Step 1: Solve each inequality.
Step 2: Graph the intersection of the two solution sets.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { and } 3 x+10<22 \\
& \frac{-6-6}{\frac{-4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{\frac{3 x}{3}<\frac{12}{3}} \\
& \mathrm{x} \leq-2 \\
& \text { x }<4
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ándô Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $3 x+10<\mathbf{2 2}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { and } 3 x+10<22 \\
& \frac{-6-6}{\frac{-4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{\frac{3 x}{3}<\frac{12}{3}} \\
& \mathrm{x} \leq-2 \\
& \text { x }<4
\end{aligned}
$$

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


## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: áandô Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $\mathbf{3 x}+\mathbf{1 0}<\mathbf{2 2}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { and } 3 x+10<22 \\
& \frac{-6-6}{\frac{-4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{\frac{3 x}{3}<\frac{12}{3}} \\
& \mathrm{x} \leq-2 \\
& \text { x }<4
\end{aligned}
$$

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


## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: óandô Example: $-\mathbf{4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $3 x+10<\mathbf{2 2}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { and } 3 x+10<22 \\
& \begin{array}{cc}
-6-6 \\
-4 x & \geq 8 \\
& \\
x \leq-2 & \frac{-10-10}{-4}<\frac{12}{3} \\
x & x<4
\end{array}
\end{aligned}
$$

the two solution sets.


## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: óandô Example: $-\mathbf{4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $3 x+10<\mathbf{2 2}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { and } 3 x+10<22 \\
& \frac{-6^{-}-6}{\frac{-4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{\frac{3 x}{3}<\frac{12}{3}} \\
& x \leq-2 \quad \text { and } \quad x<4
\end{aligned}
$$



## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: óandô Example: $-\mathbf{4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $3 x+10<\mathbf{2 2}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { and } 3 x+10<22 \\
& \frac{-6^{-}-6}{\frac{-4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{\frac{3 x}{3}<\frac{12}{3}} \\
& x \leq-2 \quad \text { and } \quad x<4
\end{aligned}
$$



## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ándô Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $3 x+10<\mathbf{2 2}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { and } 3 x+10<22 \\
& \frac{-6-6}{\frac{-4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{\frac{3 x}{3}<\frac{12}{3}} \\
& x \leq-2 \quad \text { and } \quad x<4
\end{aligned}
$$

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


## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: áandô Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $3 x+10<\mathbf{2 2}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { and } 3 x+10<22 \\
& \frac{-6-6}{\frac{-4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{\frac{3 x}{3}<\frac{12}{3}} \\
& x \leq-2 \quad \text { and } \quad x<4
\end{aligned}
$$

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

## Solving Compound Inequalities

Type 1: áandô Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ and $\mathbf{3 x}+\mathbf{1 0}<\mathbf{2 2}$

Step 1: Solve each inequality.

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

Step 2: Graph the intersection of the two solution sets.
$\frac{-6-6}{\frac{-4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{\frac{3 x}{3}<\frac{12}{3}}$
Step 3: Express the final solution in $x \leq-2 \quad$ and $\quad x<4$ terms of $x$ in simplest form.

$$
x \leq-2
$$



## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: ándô

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

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

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

Step 1: Solve each inequality.

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

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

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \\
&-3 \text { and }-2 x+9<3 \\
& \hline
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 1: áandô Example: $\mathbf{5 x}+\mathbf{3} \leq \mathbf{1 3}$ and $-\mathbf{2 x}+\mathbf{9}<\mathbf{3}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { and }-2 x+9<3 \\
& 5 x-3
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { and }-2 x+9<3 \\
& 5 x \leq \\
& 5 x-3
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { and }-2 x+9<3 \\
& \frac{-3 x}{5 x} \leq 10
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 1: áandô Example: $\mathbf{5 x}+\mathbf{3} \leq \mathbf{1 3}$ and $-\mathbf{2 x}+\mathbf{9}<\mathbf{3}$

Step 1: Solve each inequality.

$$
\frac{5 x+3 \leq 13}{-3} \begin{aligned}
& -3 \\
& \frac{5 x}{5} \leq \frac{10}{5}
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 1: áandô Example: $\mathbf{5 x}+\mathbf{3} \leq \mathbf{1 3}$ and $\mathbf{- 2 x}+\mathbf{9}<\mathbf{3}$

Step 1: Solve each inequality.

$$
\begin{gathered}
\frac{5 x+3 \leq 13}{-3} \text { and }-2 x+9<3 \\
\frac{5 x}{5} \leq \frac{10}{5} \\
x
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 1: áandô Example: $\mathbf{5 x}+\mathbf{3} \leq \mathbf{1 3}$ and $-\mathbf{2 x}+\mathbf{9}<\mathbf{3}$

Step 1: Solve each inequality.

$$
\begin{aligned}
5 x+3 & \leq 13 \text { and }-2 x+9<3 \\
-3 & -3 \\
\hline \frac{5 x}{5} & \leq \frac{10}{5} \\
x & \leq
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 1: áandô Example: $\mathbf{5 x}+\mathbf{3} \leq \mathbf{1 3}$ and $-\mathbf{2 x}+\mathbf{9}<\mathbf{3}$

Step 1: Solve each inequality.

$$
\left.\begin{array}{rl}
5 x+3 & \leq 13 \text { and }-2 x+9<3 \\
-3 & -3
\end{array}\right] \begin{aligned}
\frac{5 x}{5} & \leq \frac{10}{5} \\
x & \leq 2
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { and }-2 x+9<3 \\
& \frac{-3-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad-\frac{-9-9}{} \\
& \mathrm{x} \leq 2
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { and }-2 x+9<3 \\
& \frac{-3-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{-2 x} \\
& \mathbf{x} \leq 2
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { and }-2 x+9<3 \\
& \frac{-3-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{-2 x<} \\
& \mathbf{x} \leq 2
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

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

Step 1: Solve each inequality.

$$
\begin{array}{cc}
5 x+3 \leq 13 & \text { and } \\
-3 & -3
\end{array} \begin{aligned}
&-2 x+9<3 \\
& \begin{aligned}
-9 & -9
\end{aligned} \\
& \hline \frac{5 x}{5} \leq \frac{10}{5} \\
& x \leq 2
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { and }-2 x+9<3 \\
& \frac{-3-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{\frac{-2 x}{-2}<\frac{-6}{-2}} \\
& \mathbf{x} \leq 2
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { and }-2 x+9<3 \\
& \frac{-3-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{\frac{-2 x}{-2}<\frac{-6}{-2}} \\
& \mathbf{x} \leq 2 \quad \mathrm{x}
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { and }-2 x+9<3 \\
& \frac{-3-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{\frac{-2 x}{-2}<\frac{-6}{-2}} \\
& \mathrm{x} \leq 2 \quad \mathrm{x}>
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { and }-2 x+9<3 \\
& \frac{-3-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{\frac{-2 x}{-2}<\frac{-6}{-2}} \\
& \mathbf{x} \leq 2 \quad \mathbf{x}>\mathbf{3}
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: áandô Example: $\mathbf{5 x}+\mathbf{3} \leq \mathbf{1 3}$ and $-\mathbf{2 x}+\mathbf{9}<\mathbf{3}$

Step 1: Solve each inequality.
Step 2: Graph the intersection of the two solution sets.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { and }-2 x+9<3 \\
& \frac{-3^{-}-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{\frac{-2 x}{-2}<\frac{-6}{-2}} \\
& \mathrm{x} \leq 2 \\
& \mathbf{x}>3
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: ćandô Example: $\mathbf{5 x}+\mathbf{3} \leq \mathbf{1 3}$ and $\mathbf{- 2 x + 9}<\mathbf{3}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { and }-2 x+9<3 \\
& \frac{-3-3}{\frac{5 x}{5} \leq \frac{10}{5}} \\
& \frac{-9-9}{\frac{-2 x}{-2}<\frac{-6}{-2}} \\
& \mathbf{x} \leq 2 \quad \mathbf{x}>3
\end{aligned}
$$



## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

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

Step 1: Solve each inequality.
Step 2: Graph the intersection of the two solution sets.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { and }-2 x+9<3 \\
& \frac{-3-3}{\frac{5 x}{5} \leq \frac{10}{5}} \\
& \frac{-9<-9}{\frac{-2 x}{-2}<\frac{-6}{-2}} \\
& \mathbf{x} \leq 2 \\
& \text { x }>3
\end{aligned}
$$



## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

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

Step 1: Solve each inequality.
Step 2: Graph the intersection of the two solution sets.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { and }-2 x+9<3 \\
& \frac{-3-3}{\frac{5 x}{5} \leq \frac{10}{5}} \\
& \frac{-9<-9}{\frac{-2 x}{-2}<\frac{-6}{-2}} \\
& \mathrm{x} \leq 2 \\
& \text { x }>3
\end{aligned}
$$



## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

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

Step 1: Solve each inequality.
Step 2: Graph the intersection of the two solution sets.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { and }-2 x+9<3 \\
& \frac{-3-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{\frac{-2 x}{-2}<\frac{-6}{-2}} \\
& x \leq 2 \quad \text { and } \quad x>3
\end{aligned}
$$



## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { and }-2 x+9<3 \\
& \frac{-3-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{\frac{-2 x}{-2}<\frac{-6}{-2}} \\
& x \leq 2 \quad \text { and } \quad x>3
\end{aligned}
$$



## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 1: óandô Example: $5 x+\mathbf{3} \leq \mathbf{1 3}$ and $-\mathbf{2 x}+\mathbf{9}<\mathbf{3}$

Step 1: Solve each inequality.
Step 2: Graph the intersection of the two solution sets.

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

$$
\frac{-3^{-}-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{\frac{-2 x}{-2}<\frac{-6}{-2}}
$$

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


## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

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

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.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { and }-2 x+9<3 \\
& \frac{-3-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{\frac{-2 x}{-2}<\frac{-6}{-2}} \\
& x \leq 2 \quad \text { and } \quad x>3
\end{aligned}
$$



## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: órô

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: órô
Example: $\quad 5 x+3 \leq 13$ or $-2 x+9<3$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: órô Example: $\quad \mathbf{5 x}+\mathbf{3} \leq \mathbf{1 3}$ or $\mathbf{- 2 x}+\mathbf{9}<\mathbf{3}$

Step 1: Solve each inequality.

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: óro

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

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: ©́rô
Example: $\quad 5 x+3 \leq 13$ or $-2 x+9<3$

Step 1: Solve each inequality.

$$
\begin{aligned}
5 x+3 & \leq 13 \text { or }-2 x+9<3 \\
-3 & -3
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: ©́rô
Example: $\quad 5 x+3 \leq 13$ or $-2 x+9<3$

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: ©́rô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { or }-2 x+9<3 \\
& -3 \leq-3
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: ©́rô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { or }-2 x+9<3 \\
& -3 \leq-3 \\
& 5 x \leq 10
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: ©́rô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { or }-2 x+9<3 \\
& \frac{-3 x}{5} \leq \frac{10}{5}
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: ©́rô

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

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: ©́rô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
5 x+3 & \leq 13 \text { or }-2 x+9<3 \\
-3 & -3
\end{aligned} \underbrace{\frac{5 x}{5}} \leq \frac{10}{5} .
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: árô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
5 x+3 & \leq 13 \text { or }-2 x+9<3 \\
-3 & -3
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: ©́rô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { or }-2 x+9<3 \\
& \frac{-3-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad-\quad-9-9 \\
& \mathrm{x} \leq 2
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: ©́rô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { or }-2 x+9<3 \\
& \frac{-3^{-3}-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{-2 x} \\
& \mathbf{x} \leq 2
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: ©́rô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { or }-2 x+9<3 \\
& \frac{-3^{-}-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{-2 x<} \\
& \mathbf{x} \leq 2
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: ©́rô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { or }-2 x+9<3 \\
& \frac{-3^{-}-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{-2 x<-6} \\
& \mathbf{x} \leq 2
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: árô

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

Step 1: Solve each inequality.

\[

\]

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: árô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { or }-2 x+9<3 \\
& \frac{-3^{-}-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{\frac{-2 x}{-2}<\frac{-6}{-2}} \\
& \mathrm{x} \leq 2 \\
& \mathbf{x}
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: árô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { or }-2 x+9<3 \\
& \frac{-3^{-}-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{\frac{-2 x}{-2}<\frac{-6}{-2}} \\
& \mathbf{x} \leq 2 \quad \mathbf{x}>
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: árô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { or }-2 x+9<3 \\
& \frac{-3^{-}-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{\frac{-2 x}{-2}<\frac{-6}{-2}} \\
& \mathrm{x} \leq 2 \quad \mathrm{x}>3
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: árô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { or }-2 x+9<3 \\
& \frac{-3^{-3}}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{\frac{-2 x}{-2}<\frac{-6}{-2}} \\
& \mathbf{x} \leq 2 \\
& \mathrm{x}>3
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: órô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { or }-2 x+9<3 \\
& \frac{-3-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{\frac{-2 x}{-2}<\frac{-6}{-2}} \\
& \mathbf{x} \leq 2 \\
& \text { x }>3
\end{aligned}
$$



## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: órô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { or }-2 x+9<3 \\
& \frac{-3-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{\frac{-2 x}{-2}<\frac{-6}{-2}} \\
& \mathbf{x} \leq 2 \\
& \text { x }>3
\end{aligned}
$$



## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: órô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { or }-2 x+9<3 \\
& \frac{-3-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{\frac{-2 x}{-2}<\frac{-6}{-2}} \\
& \mathbf{x} \leq 2 \\
& \text { x }>3
\end{aligned}
$$



## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: órô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { or }-2 x+9<3 \\
& \frac{-3-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{\frac{-2 x}{-2}<\frac{-6}{-2}} \\
& x \leq 2 \quad \text { or } \quad x>3
\end{aligned}
$$



## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: órô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { or }-2 x+9<3 \\
& \frac{-3-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{\frac{-2 x}{-2}<\frac{-6}{-2}} \\
& \mathbf{x} \leq 2 \quad \text { or } \quad x>3
\end{aligned}
$$



## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: órô $\quad$ Example: $\quad 5 x+3 \leq \mathbf{1 3}$ or $-\mathbf{2 x}+\mathbf{9}<\mathbf{3}$

Step 1: Solve each inequality.
Step 2: Graph the union of the two solution sets.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { or }-2 x+9<3 \\
& \frac{-3^{-3}-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{-\frac{2 x}{-2}<\frac{-6}{-2}} \\
& \mathbf{x} \leq \mathbf{2} \quad \text { or } \quad \mathbf{x}>3
\end{aligned}
$$



## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: órô $\quad$ Example: $\quad 5 x+3 \leq \mathbf{1 3}$ or $\mathbf{- 2 x}+\mathbf{9}<\mathbf{3}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { or }-2 x+9<3 \\
& \frac{-3^{-3}-3}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{-\frac{2 x}{-2}<\frac{-6}{-2}} \\
& \mathbf{x} \leq 2 \quad \text { or } \quad \mathbf{x}>3
\end{aligned}
$$

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


## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: órô $\quad$ Example: $\quad 5 x+3 \leq \mathbf{1 3}$ or $\mathbf{- 2 x}+\mathbf{9}<\mathbf{3}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& 5 x+3 \leq 13 \text { or }-2 x+9<3 \\
& \frac{-3^{-3}}{\frac{5 x}{5} \leq \frac{10}{5}} \quad \frac{-9-9}{\frac{-2 x}{-2}<\frac{-6}{-2}} \\
& \mathbf{x} \leq \mathbf{2} \quad \text { or } \quad \mathbf{x}>\mathbf{3} \\
& x \leq 2 \text { or } x>3
\end{aligned}
$$

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


## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: órô $\quad$ Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ or $3 x+10<\mathbf{2 2}$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: órô Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ or $3 x+10<\mathbf{2 2}$

Step 1: Solve each inequality.

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: órô Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ or $\mathbf{3 x}+\mathbf{1 0}<\mathbf{2 2}$

Step 1: Solve each inequality. $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ or $\mathbf{3 x}+\mathbf{1 0}<\mathbf{2 2}$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: órô Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ or $3 x+10<\mathbf{2 2}$

Step 1: Solve each inequality.

$$
\begin{aligned}
&-4 x+6 \geq 14 \\
&-6 \text { or } 3 x+10<22 \\
&-6
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: ©́rô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
\begin{array}{c}
-4 x+6 \\
+6
\end{array} \geq 14 \text { or } 3 x+10<22 \\
-4 x
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: ©́rô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& \begin{array}{c}
-4 x+6 \\
-6 \\
-6 \\
-6 x \\
-4 x
\end{array} \\
& \hline \text { or } 3 x+10<22 \\
&
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: ©́rô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
\begin{array}{c}
-4 x+6 \\
+6
\end{array} \geq 14 \text { or } 3 x+10<22 \\
-6
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: ©́rô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
-4 x+6 & \geq 14 \text { or } 3 x+10<22 \\
-6 & -6
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: ©́rô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
\begin{aligned}
&-4 x+6 \geq 14 \\
&-6 \text { or } 3 x+10<22 \\
&-4 x \\
& \hline-\frac{8}{-4} \\
& x
\end{aligned}
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: ©́rô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { or } 3 x+10<22 \\
& \frac{-6-6}{-4 x} \frac{-8}{-4} \\
& \mathbf{x} \leq
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: ©́rô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& \begin{aligned}
&-4 x+6 \geq 14 \\
&-6 \text { or } 3 x+10<22 \\
&-6
\end{aligned} \\
& \cline { 1 - 3 }-\frac{4 x}{-4} \geq \frac{8}{-4} \\
& x \leq-2
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: órô

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

Step 1: Solve each inequality.

$$
\begin{array}{ccc}
-4 x+6 \geq 14 & \text { or } & 3 x+10<22 \\
-6 & -6 & \\
\hline-4 x & -10-10 \\
\hline-4 & & \\
x \leq-2 & &
\end{array}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: ©́rô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { or } 3 x+10<22 \\
& \frac{-6^{-}-6}{\frac{-4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{3 x} \\
& \mathrm{x} \leq-\mathbf{2}
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: ©́rô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { or } 3 x+10<22 \\
& \frac{-6^{-}-6}{\frac{-4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{3 x<} \\
& \mathrm{x} \leq-\mathbf{2}
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: ©́rô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { or } 3 x+10<22 \\
& \frac{-6^{-}-6}{\frac{-4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{3 x<12} \\
& \mathrm{x} \leq-\mathbf{2}
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: órô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { or } 3 x+10<22 \\
& \frac{-6-6}{\frac{-4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{\frac{3 x}{3}<\frac{12}{3}} \\
& \mathrm{x} \leq-\mathbf{2}
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: órô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { or } 3 x+10<22 \\
& \frac{-6-6}{\frac{-4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{\frac{3 x}{3}<\frac{12}{3}} \\
& \mathrm{x} \leq-\mathbf{2} \\
& \text { x }
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: ©́rô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { or } 3 x+10<22 \\
& \frac{-6-6}{\frac{-4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{\frac{3 x}{3}<\frac{12}{3}} \\
& x \leq-2 \\
& \mathbf{x}<
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: ©́rô

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

Step 1: Solve each inequality.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { or } 3 x+10<22 \\
& \begin{array}{cc}
\frac{-6}{}-6 \\
& -4 x \\
\frac{-4}{-4} & \frac{8}{-4} \\
x<-2
\end{array} \quad \begin{array}{cc}
\frac{3 x}{3}<\frac{12}{3} \\
x & x<4
\end{array} \\
& x \leq-2 \quad x<4
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: órô $\quad$ Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ or $\mathbf{3 x}+\mathbf{1 0}<\mathbf{2 2}$

Step 1: Solve each inequality.
Step 2: Graph the union of the two solution sets.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { or } 3 x+10<22 \\
& \frac{-6-6}{-\frac{4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{\frac{3 x}{3}<\frac{12}{3}} \\
& \mathbf{x} \leq-2 \quad \mathrm{x}<4
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: órô Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ or $\mathbf{3 x}+\mathbf{1 0}<\mathbf{2 2}$

Step 1: Solve each inequality.
Step 2: Graph the union of the two solution sets.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { or } 3 x+10<22 \\
& \begin{array}{ccc}
-6^{-}-6 \\
\geq \frac{8}{-4} & & \frac{-10-10}{-4} \\
x \leq-2 & & \frac{12}{3} \\
x & & x<4
\end{array}
\end{aligned}
$$



## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: órô $\quad$ Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ or $\mathbf{3 x}+\mathbf{1 0}<\mathbf{2 2}$

Step 1: Solve each inequality.
Step 2: Graph the union of the two solution sets.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { or } 3 x+10<22
\end{aligned}
$$



## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: órô $\quad$ Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ or $\mathbf{3 x}+\mathbf{1 0}<\mathbf{2 2}$

Step 1: Solve each inequality.
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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 union of the two solution sets.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { or } 3 x+10<22 \\
& \frac{-6-6}{-\frac{4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{\frac{3 x}{3}<\frac{12}{3}} \\
& x \leq-2 \quad \text { or } \quad x<4
\end{aligned}
$$



## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: órô $\quad$ Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ or $\mathbf{3 x}+\mathbf{1 0}<\mathbf{2 2}$

Step 1: Solve each inequality.
Step 2: Graph the union of the two solution sets.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { or } 3 x+10<22 \\
& \frac{-6-6}{-\frac{4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{\frac{3 x}{3}<\frac{12}{3}} \\
& x \leq-2 \quad \text { or } \quad x<4
\end{aligned}
$$



## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: órô Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ or $3 x+10<\mathbf{2 2}$

Step 1: Solve each inequality.
Step 2: Graph the union of the two solution sets.

$$
\begin{aligned}
& -4 x+6 \geq 14 \text { or } 3 x+10<22 \\
& \frac{-6-6}{-\frac{4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{\frac{3 x}{3}<\frac{12}{3}} \\
& x \leq-2 \quad \text { or } \quad x<4
\end{aligned}
$$



## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: órô Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ or $\mathbf{3 x}+\mathbf{1 0}<\mathbf{2 2}$

Step 1: Solve each inequality. $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ or $\mathbf{3 x}+\mathbf{1 0}<\mathbf{2 2}$
Step 2: Graph the union of the two solution sets.

$$
\frac{-6-6}{\frac{-4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{\frac{3 x}{3}<\frac{12}{3}}
$$

Step 3: Express the final solution in $\quad \mathbf{x} \leq \mathbf{- 2} \quad$ or $\quad \mathbf{x}<\mathbf{4}$ terms of $x$ in simplest form.


## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: órô Example: $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ or $\mathbf{3 x}+\mathbf{1 0}<\mathbf{2 2}$

Step 1: Solve each inequality. $\quad \mathbf{- 4 x}+\mathbf{6} \geq \mathbf{1 4}$ or $\mathbf{3 x}+\mathbf{1 0}<\mathbf{2 2}$
Step 2: Graph the union of the two solution sets.
$\frac{-6-6}{-\frac{4 x}{-4} \geq \frac{8}{-4}} \quad \frac{-10-10}{\frac{3 x}{3}<\frac{12}{3}}$
Step 3: Express the final solution in terms of $x$ in simplest form.

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

$$
x<4
$$



## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: órô
Example
$2 x-1>-5$ or $5 x+3>18$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: órô Example: $2 \mathrm{x}-\mathbf{1}>\mathbf{- 5}$ or $\mathbf{5 x}+\mathbf{3}>\mathbf{1 8}$

Step 1: Solve each inequality.

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: órô Example: $2 \mathrm{x}-\mathbf{1}>\mathbf{- 5}$ or $5 \mathrm{x}+3>18$

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: ©́rô
Example: $\quad 2 x-1>\mathbf{- 5}$ or $5 x+3>18$

Step 1: Solve each inequality.

$$
\begin{gathered}
2 x-1>-5 \text { or } 5 x+3>18 \\
+1 \begin{array}{l}
\text { }+1
\end{array}
\end{gathered}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: ©́rô
Example: $\quad 2 x-1>\mathbf{- 5}$ or $5 x+3>18$

Step 1: Solve each inequality.

$$
\begin{aligned}
& \frac{2 x-1>-5}{+1+1} \text { or } 5 x+3>18 \\
& 2 x
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: árô

$$
\text { Example: } \quad 2 x-1>-5 \text { or } 5 x+3>18
$$

Step 1: Solve each inequality.

$$
\begin{aligned}
& \frac{2 x-1>-5}{+1}+\text { or } 5 x+3>18 \\
& 2 x>
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: árô

$$
\text { Example: } \quad 2 x-1>-5 \text { or } 5 x+3>18
$$

Step 1: Solve each inequality.

$$
\begin{aligned}
& \begin{array}{l}
2 x-1>-5 \\
+1+1
\end{array} \\
& \frac{\text { or }}{}+5 x+3>-4
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: ©́rô

$$
\text { Example: } \quad 2 x-1>-5 \text { or } 5 x+3>18
$$

Step 1: Solve each inequality.

$$
\begin{aligned}
& \begin{array}{l}
2 x-1>-5 \\
+1 \\
+1
\end{array} \\
& \frac{2 x}{\frac{2}{2}>-\frac{4}{2}}
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: ©́rô
Example: $\quad 2 x-1>\mathbf{- 5}$ or $5 x+3>18$

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: árô

$$
\text { Example: } \quad 2 x-1>-5 \text { or } 5 x+3>18
$$

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

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$$
\text { Example: } \quad 2 x-1>-5 \text { or } 5 x+3>18
$$

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: ©́rô

$$
\text { Example: } \quad 2 x-1>-5 \text { or } 5 x+3>18
$$

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: ©́rô

$$
\text { Example: } \quad 2 x-1>-5 \text { or } 5 x+3>18
$$

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: ©́rô

$$
\text { Example: } \quad 2 x-1>-5 \text { or } 5 x+3>18
$$

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: árô

$$
\text { Example: } \quad 2 x-1>-5 \text { or } 5 x+3>18
$$

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: árô

$$
\text { Example: } \quad 2 x-1>-5 \text { or } 5 x+3>18
$$

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: árô

$$
\text { Example: } \quad 2 x-1>-5 \text { or } 5 x+3>18
$$

Step 1: Solve each inequality.

\[

\]

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: árô

$$
\text { Example: } \quad 2 x-1>-5 \text { or } 5 x+3>18
$$

Step 1: Solve each inequality.

$$
\begin{aligned}
& 2 x-1>-5 \text { or } 5 x+3>18
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: árô

$$
\text { Example: } \quad 2 x-1>-5 \text { or } 5 x+3>18
$$

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: órô Example: $2 \mathrm{x}-\mathbf{1}>\mathbf{- 5}$ or $5 \mathrm{x}+3>18$

Step 1: Solve each inequality.

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

## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: órô Example: $2 \mathrm{x}-\mathbf{1}>\mathbf{- 5}$ or $\mathbf{5 x}+\mathbf{3}>\mathbf{1 8}$

Step 1: Solve each inequality.

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



## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: órô Example: $2 \mathrm{x}-\mathbf{1}>\mathbf{- 5}$ or $\mathbf{5 x}+\mathbf{3}>\mathbf{1 8}$

Step 1: Solve each inequality.
Step 2: Graph the union of the two solution sets.

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



## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: órô Example: $2 \mathrm{x}-\mathbf{1}>\mathbf{- 5}$ or $\mathbf{5 x}+\mathbf{3}>\mathbf{1 8}$

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& x>-2 \quad x>3
\end{aligned}
$$



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& \frac{+1+1}{\frac{2 x}{2}>\frac{-4}{2}} \quad \frac{-3-3}{\frac{5 x}{5}>\frac{15}{5}} \\
& x>-2 \quad \text { or } \quad x>3
\end{aligned}
$$



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Solving Compound Inequalities
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& \frac{+1+1}{\frac{2 x}{2}>-\frac{4}{2}} \quad \frac{-3-3}{\frac{5 x}{5}>\frac{15}{5}} \\
& x>-2 \text { or } \quad x>3
\end{aligned}
$$



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& \frac{+1+1}{\frac{2 x}{2}>\frac{-4}{2}} \quad \frac{-3}{\frac{5 x}{5}>\frac{15}{5}} \\
& x>-2 \quad \text { or } \quad x>3
\end{aligned}
$$



## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

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Step 1: Solve each inequality.

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

$$
\frac{+1+1}{\frac{2 x}{2}>\frac{-4}{2}} \quad \frac{-3-3}{\frac{5 x}{5}>\frac{15}{5}}
$$

Step 3: Express the final solution in

$$
x>-2 \quad \text { or } \quad x>3
$$ terms of $x$ in simplest form.



## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: órô Example: $2 \mathrm{x}-\mathbf{1}>\mathbf{- 5}$ or $5 \mathrm{x}+3>18$

Step 1: Solve each inequality.

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

$$
\frac{+1+1}{\frac{2 x}{2}>\frac{-4}{2}} \quad \frac{-3-3}{\frac{5 x}{5}>\frac{15}{5}}
$$

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

$$
x>-2 \quad \text { or } \quad x>3
$$

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

$$
x>-2
$$



## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: órô Example: $\quad \mathbf{x}+\mathbf{1}<\mathbf{5}$ or $\mathbf{3 x}>\mathbf{- 9}$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: órô Example: $\quad \mathbf{x}+\mathbf{1}<\mathbf{5}$ or $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: ©́rô Example: $\quad \mathbf{x}+\mathbf{1}<\mathbf{5}$ or $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

$$
x+1<5 \text { or } 3 x>-9
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: ©́rô Example: $\quad \mathbf{x}+\mathbf{1}<\mathbf{5}$ or $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& x+1<5 \text { or } 3 x>-9 \\
& -1-1
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: órô
Example: $\quad \mathbf{x}+\mathbf{1}<\mathbf{5}$ or $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& x+1<5 \text { or } 3 x>-9 \\
& \frac{-1-1}{x}
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: órô

$$
\text { Example: } \quad x+1<5 \text { or } 3 x>-9
$$

Step 1: Solve each inequality.

$$
\begin{aligned}
& x+1<5 \text { or } 3 x>-9 \\
& \frac{-1-1}{x<}
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: órô

$$
\text { Example: } \quad \mathbf{x}+1<\mathbf{5} \text { or } 3 x>-9
$$

Step 1: Solve each inequality.

$$
\begin{aligned}
& x+1<5 \text { or } 3 x>-9 \\
& \frac{-1-1}{x<4}
\end{aligned}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: órô
Example

$$
x+1<5 \text { or } 3 x>-9
$$

Step 1: Solve each inequality.

$$
\begin{aligned}
& x+1<5 \\
& \frac{-1-1}{x<4}
\end{aligned} \text { or } \frac{3 x}{3}>\frac{-9}{3}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: órô
Example

$$
x+1<5 \text { or } 3 x>-9
$$

Step 1: Solve each inequality.

$$
\begin{aligned}
& x+1<5 \\
& \frac{x-1-1}{x<4}
\end{aligned} \text { or }_{3 x}^{3}>\frac{-9}{3}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: órô
Example

$$
x+1<5 \text { or } 3 x>-9
$$

Step 1: Solve each inequality.

$$
\begin{array}{cc}
x+1<5 & \text { or } \\
\frac{3 x}{-1}-1 & \frac{-9}{3} \\
x<4 & x>
\end{array}
$$

## Algebra I Class Worksheet \#4 Unit 4

> Solving Compound Inequalities

Type 2: órô
Example

$$
x+1<5 \text { or } 3 x>-9
$$

Step 1: Solve each inequality.

$$
\begin{array}{ccc}
x+1<5 & \text { or } & \frac{3 x}{3}>-\frac{9}{3} \\
\frac{-1-1}{x}<4 & & x>-3
\end{array}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: árô Example: $\quad \mathbf{x}+\mathbf{1}<\mathbf{5}$ or $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

$$
\begin{array}{ccc}
x+1<5 & \text { or } & \frac{3 x}{3}>-\frac{-9}{3} \\
\frac{-1-1}{x}<4 & & x>-3
\end{array}
$$

## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: ©́rô Example: $\quad \mathbf{x}+\mathbf{1}<\mathbf{5}$ or $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

$$
\begin{array}{ccc}
x+1<5 & \text { or } & \frac{3 x}{3}>-\frac{9}{3} \\
\frac{-1-1}{x<4} & & x>-3
\end{array}
$$

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


## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: órô Example: $\mathbf{x}+\mathbf{1}<\mathbf{5}$ or $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

$$
\begin{array}{ccc}
x+1<5 & \text { or } & \frac{3 x}{3}>-\frac{9}{3} \\
\frac{-1-1}{x<4} & & x>-3
\end{array}
$$

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


## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: órô Example: $\quad \mathbf{x}+\mathbf{1}<\mathbf{5}$ or $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

$$
\begin{array}{ccc}
x+1<5 & \text { or } & \frac{3 x}{3}>-\frac{-9}{3} \\
\cline { 1 - 2 }-1-1 & & x>-3
\end{array}
$$

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


## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: ©́rô Example: $\quad \mathbf{x}+\mathbf{1}<\mathbf{5}$ or $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

$$
\begin{gathered}
x+1<5 \\
\frac{-1-1}{x<4} \text { or } \frac{3 x}{3}>-\frac{-9}{3} \\
x>-3
\end{gathered}
$$

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


## Algebra I Class Worksheet \#4 Unit 4

Solving Compound Inequalities
Type 2: ©́rô Example: $\quad \mathbf{x}+\mathbf{1}<\mathbf{5}$ or $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

$$
\begin{gathered}
x+1<5 \text { or } \frac{3 x}{3}>-\frac{-9}{3} \\
\frac{x<4}{x} \text { or } x>-3
\end{gathered}
$$

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


## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: ©́rô Example: $\quad \mathbf{x}+\mathbf{1}<\mathbf{5}$ or $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& x+1<5 \text { or } \frac{3 x}{3}>-\frac{-9}{3} \\
& \frac{-1-1}{x<4} \text { or } x>-3
\end{aligned}
$$

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


## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: ©́rô Example: $\quad \mathbf{x}+\mathbf{1}<\mathbf{5}$ or $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& x+1<5 \text { or } \frac{3 x}{3}>-\frac{-9}{3} \\
& \frac{-1-1}{x<4} \text { or } x>-3
\end{aligned}
$$

Step 2: Graph the union 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

## Solving Compound Inequalities

Type 2: órô Example: $\quad \mathbf{x}+\mathbf{1}<\mathbf{5}$ or $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& x+1<5 \text { or } \frac{3 x}{3}>-\frac{9}{3} \\
& \frac{-1-1}{x<4} \text { or } x>-3
\end{aligned}
$$ two solution sets.

Step 3: Express the final solution in
$x$ can be any number. terms of x in simplest form.


## Algebra I Class Worksheet \#4 Unit 4

## Solving Compound Inequalities

Type 2: órô Example: $\quad \mathbf{x}+\mathbf{1}<\mathbf{5}$ or $\mathbf{3 x}>\mathbf{- 9}$

Step 1: Solve each inequality.

$$
\begin{aligned}
& x+1<5 \text { or } \frac{3 x}{3}>-\frac{-9}{3} \\
& \frac{-1-1}{x<4} \text { or } x>-3
\end{aligned}
$$ two solution sets.

Step 3: Express the final solution in
$x$ can be any number. terms of x in simplest form.

## Good luck on your homework !!



