## General Algebra II

## Lesson \#3 Unit 1

## Class CWS \#3

## For Worksheets \#5 \& \#6

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 1. } 2 \leq 5 x-3 \leq 12
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5

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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

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\text { 1. } \begin{aligned}
2 & \leq 5 x-3 \leq 12 \\
5 & \leq
\end{aligned}
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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

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\text { 1. } \begin{aligned}
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5 & \leq 5 x
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\text { 1. } \begin{aligned}
2 & \leq 5 x-3 \leq 12 \\
5 & \leq 5 x
\end{aligned}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\begin{gathered}
\text { 1. } 2 \leq 5 x-3 \leq 12 \\
5 \leq 5 x \leq 15 \\
1
\end{gathered}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 1. } \begin{aligned}
2 & \leq 5 x-3 \\
5 & \leq 5 x \\
5 & \leq 12 \\
1 & \leq
\end{aligned}
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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

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1 & \leq x
\end{aligned}
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$$
\begin{gathered}
\text { 1. } 2 \leq 5 x-3 \leq 12 \\
5 \leq 5 x \leq 15 \\
1 \leq x \leq 3 \\
S=
\end{gathered}
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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

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2 \leq 5 x-3 \leq 12 \\
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\end{gathered}
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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

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\text { 2. } \begin{aligned}
-3 & <4 x+9<15 \\
-12 & <
\end{aligned}
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\text { 2. } \begin{gathered}
-3<4 x+9<15 \\
-12<4 x<6
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\text { 2. } \begin{gathered}
-3<4 x+9<15 \\
-12<4 x<6 \\
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\end{gathered}
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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

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\text { 2. } \begin{aligned}
-3 & <4 x+9<15 \\
-12 & <4 x<6 \\
-3 & <x<1.5
\end{aligned}
$$

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\begin{aligned}
& \text { 2. }-\mathbf{3}<4 \mathrm{x}+9<15 \\
& -12<4 x<6 \\
& -3<x<1.5 \\
& \mathbf{S}=
\end{aligned}
$$

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\end{gathered}
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\text { 2. } \begin{gathered}
-3<4 x+9<15 \\
-12<4 x<6 \\
-3<x<1.5 \\
S=(-3
\end{gathered}
$$



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\text { 2. } \begin{gathered}
-3<4 x+9<15 \\
-12<4 x<6 \\
-3<x<1.5 \\
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\end{aligned}
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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 3. }-5<3 x+5 \leq 5
$$

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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\begin{aligned}
& \text { 3. }-5<3 x+5 \leq 5 \\
& -10
\end{aligned}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 3. } \begin{aligned}
-5 & <3 x+5 \leq 5 \\
-10 & <
\end{aligned}
$$

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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

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\text { 3. } \begin{aligned}
-5 & <3 x+5 \leq 5 \\
-10 & <3 x
\end{aligned}
$$

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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

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-5 & <3 x+5 \leq 5 \\
-10 & <3 x \leq
\end{aligned}
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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

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\text { 3. } \begin{aligned}
-5 & <3 x+5 \leq 5 \\
-10 & <3 x \leq 0
\end{aligned}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 3. } \begin{aligned}
&-5<3 x+5 \leq 5 \\
&-10<3 x \leq 0 \\
&-\frac{10}{3}
\end{aligned}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 3. } \begin{aligned}
-5 & <3 x+5 \leq 5 \\
-10 & <3 x \leq 0 \\
-\frac{10}{3} & <
\end{aligned}
$$

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$$
\text { 3. } \begin{aligned}
-5 & <3 x+5 \leq 5 \\
-10 & <3 x \leq 0 \\
-\frac{10}{3} & <x
\end{aligned}
$$

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\text { 3. } \begin{aligned}
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\end{aligned}
$$

$$
\mathbf{S}=(
$$



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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\begin{aligned}
& \text { 3. }-5<3 x+5 \leq 5 \\
& -10<3 x \leq 0 \\
& -\frac{10}{3}<x \leq 0 \\
& S=\left(-\frac{10}{3}\right.
\end{aligned}
$$

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\text { 3. } \begin{aligned}
-5 & <3 x+5 \leq 5 \\
-10 & <3 x \leq 0 \\
-\frac{10}{3} & <x \leq 0
\end{aligned}
$$

$$
S=\left(-\frac{10}{3},\right.
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-10 & <3 x \leq 0 \\
-\frac{10}{3} & <x \leq 0
\end{aligned}
$$

$$
S=\left(-\frac{10}{3}, 0\right.
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\begin{aligned}
& \text { 3. }-5<3 x+5 \leq 5 \\
& -10<3 x \leq 0 \\
& -\frac{10}{3}<x \leq 0 \\
& S=\left(-\frac{10}{3}, 0\right]
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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

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\text { 4. }-6 \leq 4 x-10<10
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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 4. } \begin{aligned}
-6 & \leq 4 x-10<10 \\
4 & \leq
\end{aligned}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 4. } \begin{aligned}
-6 & \leq 4 x-10<10 \\
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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

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\text { 4. } \begin{gathered}
-6 \leq 4 x-10<10 \\
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1
\end{gathered}
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\end{gathered}
$$



## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 4. } \begin{gathered}
-6 \leq 4 x-10<10 \\
4 \leq 4 x<20 \\
1 \leq x<5 \\
S=[1,
\end{gathered}
$$



## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 4. } \begin{gathered}
-6 \leq 4 x-10<10 \\
4 \leq 4 x<20 \\
1 \leq x<5 \\
S=[1,5
\end{gathered}
$$



## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 4. } \begin{gathered}
-6 \leq 4 x-10<10 \\
4 \leq 4 x<20 \\
1 \leq x<5 \\
S=[1,5)
\end{gathered}
$$



## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 4. } \begin{gathered}
-6 \leq 4 x-10<10 \\
4 \leq 4 x<20 \\
1 \leq x<5 \\
S=[1,5)
\end{gathered}
$$



## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 5. }-15 \leq-6 x+3 \leq 27
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\begin{aligned}
& \text { 5. }-15 \leq-6 x+3 \leq 27 \\
& -18
\end{aligned}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 5. } \begin{aligned}
-15 & \leq-6 x+3 \leq 27 \\
-18 & \leq
\end{aligned}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 5. } \begin{aligned}
-15 & \leq-6 x+3 \leq 27 \\
-18 & \leq-6 x
\end{aligned}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 5. } \begin{gathered}
-15 \leq-6 x+3 \leq 27 \\
-18 \leq-6 x \leq
\end{gathered}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 5. } \begin{gathered}
-15 \leq-6 x+3 \leq 27 \\
-18 \leq-6 x \leq 24
\end{gathered}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 5. } \begin{gathered}
-15 \leq-6 x+3 \leq 27 \\
-18 \leq-6 x \leq 24 \\
3
\end{gathered}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 5. } \begin{gathered}
-15 \leq-6 x+3 \leq 27 \\
-18 \leq-6 x \leq 24 \\
3 \geq
\end{gathered}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 5. } \begin{gathered}
-15 \leq-6 x+3 \leq 27 \\
-18 \leq-6 x \leq 24 \\
3 \geq x
\end{gathered}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 5. } \begin{gathered}
-15 \leq-6 x+3 \leq 27 \\
-18 \leq-6 x \leq 24 \\
3 \geq x \geq
\end{gathered}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 5. } \begin{gathered}
-15 \leq-6 x+3 \leq 27 \\
-18 \leq-6 x \leq 24 \\
3 \geq x \geq-4
\end{gathered}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 5. } \begin{gathered}
-15 \leq-6 x+3 \leq 27 \\
-18 \leq-6 x \leq 24 \\
3 \geq x \geq-4 \\
-4
\end{gathered}
$$

## General Algebra II CWS \#3 Unit 1

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\text { 5. } \begin{aligned}
-15 & \leq-6 x+3 \leq 27 \\
-18 & \leq-6 x \leq 24 \\
3 & \geq x \geq-4 \\
-4 & \leq
\end{aligned}
$$

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$$
\text { 5. } \begin{aligned}
-15 & \leq-6 x+3 \leq 27 \\
-18 & \leq-6 x \leq 24 \\
3 & \geq x \geq-4 \\
-4 & \leq x
\end{aligned}
$$

## General Algebra II CWS \#3 Unit 1

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\text { 5. } \begin{aligned}
-15 & \leq-6 x+3 \leq 27 \\
-18 & \leq-6 x \leq 24 \\
3 & \geq x \geq-4 \\
-4 & \leq x \leq
\end{aligned}
$$

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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

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-15 & \leq-6 x+3 \leq 27 \\
-18 & \leq-6 x \leq 24 \\
3 & \geq x \geq-4 \\
-4 & \leq x \leq 3
\end{aligned}
$$

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\text { 5. } \begin{aligned}
-15 & \leq-6 x+3 \leq 27 \\
-18 & \leq-6 x \leq 24 \\
3 & \geq x \geq-4 \\
-4 & \leq x \leq 3
\end{aligned}
$$



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-18 & \leq-6 x \leq 24 \\
3 & \geq x \geq-4 \\
-4 & \leq x \leq 3
\end{aligned}
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-15 & \leq-6 x+3 \leq 27 \\
-18 & \leq-6 x \leq 24 \\
3 & \geq x \geq-4 \\
-4 & \leq x \leq 3
\end{aligned}
$$



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-18 & \leq-6 x \leq 24 \\
3 & \geq x \geq-4 \\
-4 & \leq x \leq 3
\end{aligned}
$$



## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 5. } \begin{gathered}
-15 \leq-6 x+3 \leq 27 \\
-18 \leq-6 x \leq 24 \\
3 \geq x \geq-4 \\
-4 \leq x \leq 3 \\
S=
\end{gathered}
$$



## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 5. } \begin{aligned}
-15 & \leq-6 x+3 \leq 27 \\
-18 & \leq-6 x \leq 24 \\
3 & \geq x \geq-4 \\
-4 & \leq x \leq 3 \\
S & =[
\end{aligned}
$$



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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 5. } \begin{aligned}
-15 & \leq-6 x+3 \leq 27 \\
-18 & \leq-6 x \leq 24 \\
3 & \geq x \geq-4 \\
-4 & \leq x \leq 3 \\
S & =[-4
\end{aligned}
$$



## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 5. } \begin{aligned}
-15 & \leq-6 x+3 \leq 27 \\
-18 & \leq-6 x \leq 24 \\
3 & \geq x \geq-4 \\
-4 & \leq x \leq 3 \\
S & =[-4,
\end{aligned}
$$



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-15 & \leq-6 x+3 \leq 27 \\
-18 & \leq-6 x \leq 24 \\
3 & \geq x \geq-4 \\
-4 & \leq x \leq 3 \\
S & =[-4,3
\end{aligned}
$$



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-15 & \leq-6 x+3 \leq 27 \\
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-4 & \leq x \leq 3 \\
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\end{aligned}
$$



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3 & \geq x \geq-4 \\
-4 & \leq x \leq 3 \\
S & =[-4,3]
\end{aligned}
$$



## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 6. }-12<-2 x-3<4
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\begin{aligned}
& \text { 6. }-12<-2 x-3<4 \\
& -9
\end{aligned}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 6. } \begin{gathered}
-12<-2 x-3<4 \\
-9<
\end{gathered}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 6. } \begin{gathered}
-12<-2 x-3<4 \\
-9<-2 x
\end{gathered}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 6. } \begin{gathered}
-12<-2 x-3<4 \\
-9<-2 x<
\end{gathered}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 6. } \begin{gathered}
-12<-2 x-3<4 \\
-9<-2 x<7
\end{gathered}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 6. } \begin{gathered}
-12<-2 x-3<4 \\
-9<-2 x<7 \\
\frac{9}{2}
\end{gathered}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 6. } \begin{aligned}
&-12<-2 x-3<4 \\
&-9<-2 x<7 \\
& \frac{9}{2}>
\end{aligned}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 6. } \begin{aligned}
&-12<-2 x-3<4 \\
&-9<-2 x<7 \\
& \frac{9}{2}>x
\end{aligned}
$$

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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

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&-9<-2 x<7 \\
& \frac{9}{2}>x>
\end{aligned}
$$

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$$
\text { 6. } \begin{aligned}
&-12<-2 x-3<4 \\
&-9<-2 x<7 \\
& \frac{9}{2}>x>-\frac{7}{2}
\end{aligned}
$$

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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\text { 6. } \begin{aligned}
&-12<-2 x-3<4 \\
&-9<-2 x<7 \\
& \frac{9}{2}>x>-\frac{7}{2} \\
& \frac{-7}{2}
\end{aligned}
$$

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\text { 6. } \begin{aligned}
&-12<-2 x-3<4 \\
&-9<-2 x<7 \\
& \frac{9}{2}>x>\frac{-7}{2} \\
& \frac{-7}{2}<
\end{aligned}
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\text { 6. } \begin{aligned}
-12 & <-2 x-3<4 \\
-9 & <-2 x<7 \\
\frac{9}{2} & >x>-\frac{7}{2} \\
\frac{-7}{2} & <x
\end{aligned}
$$

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\text { 6. } \begin{aligned}
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&-9<-2 x<7 \\
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& \frac{-7}{2}<x<
\end{aligned}
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\end{aligned}
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& \frac{-7}{2}<x<\frac{9}{2}
\end{aligned}
$$



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$$
\text { 6. } \begin{aligned}
&-12<-2 x-3<4 \\
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& \frac{9}{2}>x>\frac{-7}{2} \\
& \frac{-7}{2}<x<\frac{9}{2}
\end{aligned}
$$



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-9 & <-2 x<7 \\
\frac{9}{2} & >x>\frac{-7}{2} \\
\frac{-7}{2} & <x<\frac{9}{2}
\end{aligned}
$$



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\text { 6. } \begin{aligned}
-12 & <-2 x-3<4 \\
-9 & <-2 x<7 \\
\frac{9}{2} & >x>\frac{-7}{2} \\
\frac{-7}{2} & <x<\frac{9}{2}
\end{aligned}
$$



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$$
\text { 6. } \begin{aligned}
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-9 & <-2 x<7 \\
\frac{9}{2} & >x>\frac{-7}{2} \\
\frac{-7}{2} & <x<\frac{9}{2}
\end{aligned}
$$



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-9 & <-2 x<7 \\
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\end{aligned}
$$



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-12 & <-2 x-3<4 \\
-9 & <-2 x<7 \\
\frac{9}{2} & >x>\frac{-7}{2} \\
\frac{-7}{2} & <x<\frac{9}{2}
\end{aligned}
$$



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$$
\text { 6. } \begin{aligned}
-12 & <-2 x-3<4 \\
-9 & <-2 x<7 \\
\frac{9}{2} & >x>\frac{-7}{2} \\
\frac{-7}{2} & <x<\frac{9}{2}
\end{aligned}
$$



## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\begin{aligned}
& \text { 6. }-12<-2 x-3<4 \\
& -9<-2 x<7 \\
& \frac{9}{2}>\mathrm{x}>\frac{-7}{2} \\
& \frac{-7}{2}<x<\frac{9}{2} \\
& \mathbf{S}=
\end{aligned}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\begin{aligned}
& \text { 6. }-12<-2 x-3<4 \\
& -9<-2 x<7 \\
& \frac{9}{2}>x>\frac{-7}{2} \\
& -\frac{7}{2}<x<\frac{9}{2} \\
& S=(
\end{aligned}
$$

## General Algebra II CWS \#3 Unit 1

Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\begin{aligned}
& \text { 6. }-12<-2 x-3<4 \\
& -9<-2 x<7 \\
& \frac{9}{2}>x>\frac{-7}{2} \\
& -\frac{7}{2}<x<\frac{9}{2} \\
& S=\left(\frac{-7}{2}\right.
\end{aligned}
$$

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Solve each of the following inequalities. Then express the solution set using interval notation and sketch its graph.

$$
\begin{aligned}
& \text { 6. }-12<-2 x-3<4 \\
& -9<-2 x<7 \\
& \frac{9}{2}>x>\frac{-7}{2} \\
& -\frac{7}{2}<x<\frac{9}{2} \\
& \mathbf{S}=\left(\frac{-7}{2},\right.
\end{aligned}
$$

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\begin{aligned}
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& -9<-2 x<7 \\
& \frac{9}{2}>x>\frac{-7}{2} \\
& \frac{-7}{2}<x<\frac{9}{2} \\
& S=\left(\frac{-7}{2}, \frac{9}{2}\right.
\end{aligned}
$$

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& \frac{9}{2}>x>\frac{-7}{2} \\
& -\frac{7}{2}<x<\frac{9}{2} \\
& \mathrm{~S}=\left(\frac{-7}{2}, \frac{9}{2}\right)
\end{aligned}
$$

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& -9<-2 x<7 \\
& \frac{9}{2}>x>\frac{-7}{2} \\
& \frac{-7}{2}<x<\frac{9}{2} \\
& S=\left(\frac{-7}{2}, \frac{9}{2}\right)
\end{aligned}
$$

## General Algebra II CWS \#3 Unit 1

## General Algebra II CWS \#3 Unit 1

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

## General Algebra II CWS \#3 Unit 1

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

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Type 1 and:

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Type 1 and :
7.

## General Algebra II CWS \#3 Unit 1

Compound inequalities are formed when two basic inequalities are 'joined' using the 'connective' and or the 'connective' or. Here are some examples.
Type 1 and :
7. $3 x+5<11$

## General Algebra II CWS \#3 Unit 1

Compound inequalities are formed when two basic inequalities are 'joined' using the 'connective' and or the 'connective' or. Here are some examples.
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7. $3 x+5<11$ and

## General Algebra II CWS \#3 Unit 1

Compound inequalities are formed when two basic inequalities are 'joined' using the 'connective' and or the 'connective' or. Here are some examples.
Type 1 and :

$$
\text { 7. } 3 x+5<11 \text { and } 2 x+3>-3
$$

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Compound inequalities are formed when two basic inequalities are 'joined' using the 'connective' and or the 'connective' or. Here are some examples.
Type 1 and :
7. $3 x+5<11$ and $2 x+3>-3$
8.

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Compound inequalities are formed when two basic inequalities are 'joined' using the 'connective' and or the 'connective' or. Here are some examples.
Type 1 and :

$$
\begin{aligned}
& \text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 \\
& \text { 8. }-2 x-3 \geq 5
\end{aligned}
$$

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Compound inequalities are formed when two basic inequalities are 'joined' using the 'connective' and or the 'connective' or. Here are some examples.
Type 1 and :

$$
\begin{aligned}
& \text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 \\
& \text { 8. }-2 x-3 \geq 5 \text { and }
\end{aligned}
$$

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Type 1 and :

$$
\begin{aligned}
& \text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 \\
& \text { 8. }-2 x-3 \geq 5 \text { and } 4 x+6 \leq 14
\end{aligned}
$$

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Compound inequalities are formed when two basic inequalities are 'joined' using the 'connective' and or the 'connective' or. Here are some examples.
Type 1 and :
7. $3 x+5<11$ and $2 x+3>-3$
8. $-2 x-3 \geq 5$ and $4 x+6 \leq 14$
9.

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Compound inequalities are formed when two basic inequalities are 'joined' using the 'connective' and or the 'connective' or. Here are some examples.
Type 1 and :

$$
\begin{aligned}
& \text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 \\
& \text { 8. }-2 x-3 \geq 5 \text { and } 4 x+6 \leq 14 \\
& \text { 9. } x-1>3
\end{aligned}
$$

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\begin{aligned}
& \text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 \\
& \text { 8. }-2 x-3 \geq 5 \text { and } 4 x+6 \leq 14 \\
& \text { 9. } x-1>3 \text { and }
\end{aligned}
$$

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Type 1 and :

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\begin{aligned}
& \text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 \\
& \text { 8. }-2 x-3 \geq 5 \text { and } 4 x+6 \leq 14 \\
& \text { 9. } x-1>3 \text { and }-2 x-5>1
\end{aligned}
$$

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Type 1 and :

$$
\begin{aligned}
& \text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 \\
& \text { 8. }-2 x-3 \geq 5 \text { and } 4 x+6 \leq 14 \\
& \text { 9. } x-1>3 \text { and }-2 x-5>1
\end{aligned}
$$

Type 2 or:

## General Algebra II CWS \#3 Unit 1

Compound inequalities are formed when two basic inequalities are 'joined' using the 'connective' and or the 'connective' or. Here are some examples.
Type 1 and :

$$
\begin{aligned}
& \text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 \\
& \text { 8. }-2 x-3 \geq 5 \text { and } 4 x+6 \leq 14 \\
& \text { 9. } x-1>3 \text { and }-2 x-5>1
\end{aligned}
$$

Type 2 or: 10.

## General Algebra II CWS \#3 Unit 1

Compound inequalities are formed when two basic inequalities are 'joined' using the 'connective' and or the 'connective' or. Here are some examples.
Type 1 and :

$$
\begin{aligned}
& \text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 \\
& \text { 8. }-2 x-3 \geq 5 \text { and } 4 x+6 \leq 14 \\
& \text { 9. } x-1>3 \text { and }-2 x-5>1
\end{aligned}
$$

Type 2 or:
10. $2 x+7 \geq 1$

## General Algebra II CWS \#3 Unit 1

Compound inequalities are formed when two basic inequalities are 'joined' using the 'connective' and or the 'connective' or. Here are some examples.
Type 1 and :

$$
\begin{aligned}
& \text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 \\
& \text { 8. }-2 x-3 \geq 5 \text { and } 4 x+6 \leq 14 \\
& \text { 9. } x-1>3 \text { and }-2 x-5>1
\end{aligned}
$$

Type 2 or:
10. $2 x+7 \geq 1$ or

## General Algebra II CWS \#3 Unit 1

Compound inequalities are formed when two basic inequalities are 'joined' using the 'connective' and or the 'connective' or. Here are some examples.
Type 1 and :

$$
\begin{aligned}
& \text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 \\
& \text { 8. }-2 x-3 \geq 5 \text { and } 4 x+6 \leq 14 \\
& \text { 9. } x-1>3 \text { and }-2 x-5>1
\end{aligned}
$$

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

## General Algebra II CWS \#3 Unit 1

Compound inequalities are formed when two basic inequalities are 'joined' using the 'connective' and or the 'connective' or. Here are some examples.
Type 1 and :
7. $3 x+5<11$ and $2 x+3>-3$
8. $-2 x-3 \geq 5$ and $4 x+6 \leq 14$
9. $x-1>3$ and $-2 x-5>1$

Type 2 or:
10. $2 x+7 \geq 1$ or $3 x-2 \geq 10$
11.

## General Algebra II CWS \#3 Unit 1

Compound inequalities are formed when two basic inequalities are 'joined' using the 'connective' and or the 'connective' or. Here are some examples.
Type 1 and :
7. $3 x+5<11$ and $2 x+3>-3$
8. $-2 x-3 \geq 5$ and $4 x+6 \leq 14$
9. $x-1>3$ and $-2 x-5>1$

Type 2 or:
10. $2 x+7 \geq 1$ or $3 x-2 \geq 10$
11. $-5 \mathrm{x}+11<1$

## General Algebra II CWS \#3 Unit 1

Compound inequalities are formed when two basic inequalities are 'joined' using the 'connective' and or the 'connective' or. Here are some examples.
Type 1 and :

$$
\begin{aligned}
& \text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 \\
& \text { 8. }-2 x-3 \geq 5 \text { and } 4 x+6 \leq 14 \\
& \text { 9. } x-1>3 \text { and }-2 x-5>1
\end{aligned}
$$

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

## General Algebra II CWS \#3 Unit 1

Compound inequalities are formed when two basic inequalities are 'joined' using the 'connective' and or the 'connective' or. Here are some examples.
Type 1 and :
7. $3 x+5<11$ and $2 x+3>-3$
8. $-2 x-3 \geq 5$ and $4 x+6 \leq 14$
9. $x-1>3$ and $-2 x-5>1$

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

## General Algebra II CWS \#3 Unit 1

Compound inequalities are formed when two basic inequalities are 'joined' using the 'connective' and or the 'connective' or. Here are some examples.
Type 1 and :
7. $3 x+5<11$ and $2 x+3>-3$
8. $-2 x-3 \geq 5$ and $4 x+6 \leq 14$
9. $x-1>3$ and $-2 x-5>1$

Type 2 or:
10. $2 x+7 \geq 1$ or $3 x-2 \geq 10$
11. $-5 x+11<1$ or $x+5<1$
12.

## General Algebra II CWS \#3 Unit 1

Compound inequalities are formed when two basic inequalities are 'joined' using the 'connective' and or the 'connective' or. Here are some examples.
Type 1 and :
7. $3 x+5<11$ and $2 x+3>-3$
8. $-2 x-3 \geq 5$ and $4 x+6 \leq 14$
9. $x-1>3$ and $-2 x-5>1$

Type 2 or:
10. $2 x+7 \geq 1$ or $3 x-2 \geq 10$
11. $-5 x+11<1$ or $x+5<1$
12. $3 x+4 \geq 1$

## General Algebra II CWS \#3 Unit 1

Compound inequalities are formed when two basic inequalities are 'joined' using the 'connective' and or the 'connective' or. Here are some examples.
Type 1 and :
7. $3 x+5<11$ and $2 x+3>-3$
8. $-2 x-3 \geq 5$ and $4 x+6 \leq 14$
9. $x-1>3$ and $-2 x-5>1$

Type 2 or:
10. $2 x+7 \geq 1$ or $3 x-2 \geq 10$
11. $-5 x+11<1$ or $x+5<1$
12. $3 x+4 \geq 1$ or

## General Algebra II CWS \#3 Unit 1

Compound inequalities are formed when two basic inequalities are 'joined' using the 'connective' and or the 'connective' or. Here are some examples.
Type 1 and :
7. $3 x+5<11$ and $2 x+3>-3$
8. $-2 x-3 \geq 5$ and $4 x+6 \leq 14$
9. $x-1>3$ and $-2 x-5>1$

Type 2 or:
10. $2 x+7 \geq 1$ or $3 x-2 \geq 10$
11. $-5 x+11<1$ or $x+5<1$
12. $3 x+4 \geq 1$ or $-4 x+10>2$

## Algebra II Class Worksheet \#3 Unit 4 <br> Solving Compound Inequalities - Type 1 and

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and

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

$$
\text { 7. } 3 x+5<11 \text { and } 2 x+3>-3
$$

# Algebra II Class Worksheet \#3 Unit 4 

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.

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

$$
\text { 7. } 3 x+5<11 \text { and } 2 x+3>-3
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and Step 1: Solve each basic inequality.

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

$$
\begin{aligned}
& \text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 \\
& 3 x
\end{aligned}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and Step 1: Solve each basic inequality.

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

$$
\begin{aligned}
& \text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 \\
& 3 x<
\end{aligned}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.

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

$$
\begin{gathered}
\text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 \\
3 x<6
\end{gathered}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.

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

$$
\begin{aligned}
& \text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 \\
& 3 x<6 \\
& x
\end{aligned}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.

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

$$
\text { 7. } \begin{gathered}
3 x+5<11 \text { and } 2 x+3>-3 \\
3 x<6 \\
x<
\end{gathered}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.

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

$$
\text { 7. } \begin{gathered}
3 x+5<11 \text { and } 2 x+3>-3 \\
3 x<6 \\
x<2
\end{gathered}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.

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

$$
\begin{aligned}
& \text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 \\
& 3 x<6 \quad 2 x \\
& \mathbf{x}<2
\end{aligned}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.

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

$$
\text { 7. } \begin{array}{ccc}
3 x+5 & <11 & \text { and } \\
3 x+3>-3 \\
& 2 x & 2 x> \\
x<2 & &
\end{array}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.

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

$$
\text { 7. } \begin{array}{ccc}
3 x+5 & <11 & \text { and } \\
3 x+3>-3 \\
& 2 x & 2 x>-6 \\
x & <2 &
\end{array}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.

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

$$
\begin{array}{ccc}
\text { 7. } 3 x+5<11 & \text { and } & 2 x+3>-3 \\
3 x<6 & 2 x>-6 \\
x<2 & x
\end{array}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.

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

$$
\begin{aligned}
& \text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 \\
& 3 x<6 \quad 2 x>-6 \\
& \mathbf{x}<2 \quad \mathrm{x}>
\end{aligned}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.

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

$$
\begin{aligned}
& \text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 \\
& 3 x<6 \quad 2 x>-6 \\
& x<2 \quad x>-3
\end{aligned}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.

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

$$
\begin{array}{cccc}
\text { 7. } 3 x+5<11 & \text { and } & 2 x+3>-3 \\
3 x<6 & & 2 x>-6 \\
x<2 & \text { and } & x>-3
\end{array}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.

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

$$
\begin{array}{ccc}
\text { 7. } 3 x+5<11 & \text { and } & 2 x+3>-3 \\
3 x<6 & & 2 x>-6 \\
x<2 & \text { and } & x>-3
\end{array}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.

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

$$
\begin{array}{ccc}
\text { 7. } 3 x+5<11 & \text { and } & 2 x+3>-3 \\
3 x<6 & & 2 x>-6 \\
x<2 & \text { and } & x>-3
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.

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

$$
\text { 7. } \begin{array}{ccc}
3 x+5<11 & \text { and } & 2 x+3>-3 \\
3 x<6 & & 2 x>-6 \\
x<2 & \text { and } & x>-3
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.

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

$$
\text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 x+\begin{array}{ccc}
2 x>6 & & 2 x>-6 \\
3 x<2 & \text { and } & x>-3
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.

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

$$
\begin{aligned}
& \text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 \\
& 3 x<6 \quad 2 x>-6 \\
& x<2 \text { and } x>-3
\end{aligned}
$$



## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.

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

$$
\text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 x+\begin{array}{ccc} 
& 2 x>-6 \\
3 x<6 & & 2 x> \\
x<2 & \text { and } & x>-3
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.

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

$$
\text { 7. } 3 x+5<11 \text { and } \begin{array}{ccc} 
& 2 x+3>-3 \\
3 x<6 & & 2 x>-6 \\
x<2 & \text { and } & x>-3
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.

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

$$
\text { 7. } \begin{array}{ccc}
3 x+5<11 & \text { and } & 2 x+3>-3 \\
3 x<6 & & 2 x>-6 \\
x<2 & \text { and } & x>-3
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.

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

$$
\text { 7. } \begin{array}{ccc}
3 x+5<11 & \text { and } & 2 x+3>-3 \\
3 x<6 & & 2 x>-6 \\
x<2 & \text { and } & x>-3
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.

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

$$
\text { 7. } 3 x+5<11 \text { and } \begin{array}{ccc} 
& 2 x+3>-3 \\
3 x<6 & & 2 x>-6 \\
x<2 & \text { and } & x>-3
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.

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

$$
\text { 7. } 3 x+5<11 \text { and } \begin{array}{ccc} 
& 2 x+3>-3 \\
3 x<6 & & 2 x>-6 \\
x<2 & \text { and } & x>-3
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.

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

$$
\text { 7. } 3 x+5<11 \text { and } \begin{array}{ccc} 
& 2 x+3>-3 \\
3 x<6 & & 2 x>-6 \\
x<2 & \text { and } & x>-3
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.

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

$$
\text { 7. } 3 x+5<11 \text { and } \begin{array}{ccc} 
& 2 x+3>-3 \\
3 x<6 & & 2 x>-6 \\
x<2 & \text { and } & x>-3
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.

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

$$
\text { 7. } 3 x+5<11 \text { and } \begin{array}{ccc} 
& 2 x+3>-3 \\
3 x<6 & & 2 x>-6 \\
x<2 & \text { and } & x>-3
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.

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

$$
\begin{array}{ccc}
\text { 7. } 3 x+5<11 & \text { and } & 2 x+3>-3 \\
3 x<6 & & 2 x>-6 \\
x<2 & \text { and } & x>-3
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.
Step 3: Express the final solution in simplest form.
Solve each of the following for $x$. Represent the solution set as an interval or the union of intervals and sketch its graph.

$$
\begin{array}{ccc}
\text { 7. } 3 x+5<11 & \text { and } & 2 x+3>-3 \\
3 x<6 & & 2 x>-6 \\
x<2 & \text { and } & x>-3
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.
Step 3: Express the final solution in simplest form. Solve each of the following for $x$. Represent the solution set as an interval or the union of intervals and sketch its graph.

$$
\text { 7. } \begin{array}{rlrl}
3 x+5 & <11 & \text { and } & 2 x+3>-3 \\
3 x & <6 & & 2 x>-6 \\
x<2 & & \text { and } & x>-3 \\
-3 & &
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.
Step 3: Express the final solution in simplest form. Solve each of the following for $x$. Represent the solution set as an interval or the union of intervals and sketch its graph.

$$
\text { 7. } \begin{array}{ccc}
3 x+5 & <11 & \text { and } \\
& 2 x+3>-3 \\
3 x<6 & & 2 x>-6 \\
x<2 & \text { and } & x>-3 \\
-3 & \quad x &
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.
Step 3: Express the final solution in simplest form. Solve each of the following for $x$. Represent the solution set as an interval or the union of intervals and sketch its graph.

$$
\text { 7. } \begin{array}{rlrl}
3 x+5 & <11 & \text { and } & 2 x+3>-3 \\
3 x & <6 & & 2 x>-6 \\
x & & \text { and } & x>-3 \\
& & x & \\
-3 & &
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.
Step 3: Express the final solution in simplest form. Solve each of the following for $x$. Represent the solution set as an interval or the union of intervals and sketch its graph.

$$
\text { 7. }
$$



## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.
Step 3: Express the final solution in simplest form. Solve each of the following for $x$. Represent the solution set as an interval or the union of intervals and sketch its graph.

$$
\text { 7. } \begin{array}{rlrl}
3 x+5 & <11 & \text { and } & 2 x+3>-3 \\
3 x & <6 & & 2 x>-6 \\
x & & \text { and } & x>-3 \\
& \\
-3<x<2
\end{array}
$$



## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.
Step 3: Express the final solution in simplest form. Solve each of the following for $x$. Represent the solution set as an interval or the union of intervals and sketch its graph.

$$
\begin{aligned}
& \text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 \\
& 3 x<6 \quad 2 x>-6 \\
& x<2 \text { and } x>-3 \\
& -3<x<2
\end{aligned}
$$



## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.
Step 3: Express the final solution in simplest form.
Solve each of the following for $x$. Represent the solution set as an interval or the union of intervals and sketch its graph.

$$
\begin{aligned}
& \text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 \\
& 3 x<6 \quad 2 x>-6 \\
& x<2 \text { and } x>-3 \\
& -3<x<2
\end{aligned}
$$



## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.
Step 3: Express the final solution in simplest form.
Solve each of the following for $x$. Represent the solution set as an interval or the union of intervals and sketch its graph.


## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.
Step 3: Express the final solution in simplest form.
Solve each of the following for $x$. Represent the solution set as an interval or the union of intervals and sketch its graph.


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Solving Compound Inequalities - Type 1 and
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$$
\begin{aligned}
& \text { 7. } 3 x+5<11 \text { and } 2 x+3>-3 \\
& 3 x<6 \quad 2 x>-6 \\
& x<2 \text { and } x>-3 \\
& -3<x<2 \\
& S=(-3,2)
\end{aligned}
$$



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$$
\text { 8. }-2 x-3 \geq 5 \text { and } 4 x+6 \leq 14
$$

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$$
\begin{aligned}
& \text { 8. }-2 x-3 \geq 5 \text { and } 4 x+6 \leq 14 \\
& -2 x
\end{aligned}
$$

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\text { 8. } \begin{aligned}
-2 x-3 & \geq 5 \\
-2 x & \text { and } 4 x+6 \leq 14
\end{aligned}
$$

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$$
\begin{aligned}
& \text { 8. }-2 x-3 \geq 5 \text { and } 4 x+6 \leq 14 \\
& -2 x \geq 8 \\
& x
\end{aligned}
$$

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$$
\text { 8. } \begin{gathered}
-2 x-3 \geq 5 \text { and } 4 x+6 \leq 14 \\
-2 x \geq 8 \\
x \leq
\end{gathered}
$$

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$$
\text { 8. } \begin{aligned}
-2 x & -3 \\
-2 & \geq 5 \\
-2 & \text { and } 4 x+6 \leq 14 \\
x & \leq-4
\end{aligned}
$$

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$$
\text { 8. } \begin{array}{rl}
-2 x-3 & \geq 5 \\
-2 x & \text { and } 4 x+6 \leq 14 \\
-2 x & 4 x \\
x & \leq-4
\end{array}
$$

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$$
\text { 8. } \begin{array}{rl}
-2 x-3 & \geq 5 \\
& \text { and } 4 x+6 \leq 14 \\
-2 x & \geq 8 \\
x \leq-4 & 4 x \leq \\
x &
\end{array}
$$

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-2 x-3 & \geq 5 \\
-2 x & \text { and } 4 x+6 \\
-2 x & 4 x \leq 8 \\
x \leq-4 &
\end{array}
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$$
\begin{array}{rc}
\text { 8. } & -2 x-3 \geq 5 \\
-2 x & \text { and } \\
-8 & 4 x+6 \leq 14 \\
x \leq-4 & 4 x \leq 8 \\
x & x
\end{array}
$$

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x \leq-4 & x \leq 2
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\begin{array}{rlc}
\text { 8. } & -2 x-3 \geq 5 & \text { and } \\
-2 x \geq 8 & 4 x & \\
-2 x & & 4 x \leq 8 \\
x \leq-4 & & \text { and } \\
x \leq 2
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x \leq-4 & \text { and } & x \leq 2 \\
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-2 x \geq 8 & & 4 x \leq 8 \\
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& x \leq 2 \\
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\end{array}
$$



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$$
\text { 9. } x-1>3 \text { and }-2 x-5>1
$$

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$$
\text { 9. } x-1>3 \text { and }-2 x-5>1
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.
Step 3: Express the final solution in simplest form. Solve each of the following for $x$. Represent the solution set as an interval or the union of intervals and sketch its graph.

$$
\text { 9. } x-1>3 \text { and }-2 x-5>1
$$

$$
\mathbf{x}>
$$

## Algebra II Class Worksheet \#3 Unit 4

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$$
\text { 9. } x-1>3 \text { and }-2 x-5>1
$$

$$
x>4
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
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Step 3: Express the final solution in simplest form. Solve each of the following for $x$. Represent the solution set as an interval or the union of intervals and sketch its graph.

$$
\text { 9. } \begin{aligned}
x-1>3 \text { and }-2 x-5>1 \\
x>4
\end{aligned}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
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$$
\text { 9. } \begin{aligned}
& x-1>3 \text { and } \begin{aligned}
-2 x-5 & >1 \\
-2 x & >6
\end{aligned} \\
& x>4
\end{aligned}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
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$$
\text { 9. } x-1>3 \text { and } \begin{array}{rc}
-2 x-5>1 \\
x>4 & -2 x>6
\end{array}
$$

## Algebra II Class Worksheet \#3 Unit 4

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

$$
\text { 9. } x-1>3 \text { and } \begin{aligned}
&-2 x-5>1 \\
& x>4-2 x>6 \\
& x<
\end{aligned}
$$

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$$
\text { 9. } x-1>3 \text { and } \begin{array}{rl} 
& -2 x-5>1 \\
x>4 & -2 x>6 \\
x & x<-3
\end{array}
$$

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x>4 & -2 x>6 \\
x<-3
\end{array}
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& & -2 x>6 \\
x>4 & \text { and } & x<-3
\end{array}
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\end{array}
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& & -2 x>6 \\
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& & -2 x>6 \\
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& & -2 x>6 \\
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& -2 x-5>1 \\
x>4 & \text { and } & -2 x>6 \\
x<-3
\end{array}
$$



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& & -2 x>6 \\
x>4 & \text { and } & x<-3
\end{array}
$$



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& & -2 x>6 \\
x>4 & \text { and } & x<-3
\end{array}
$$



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& & -2 x>6 \\
x>4 & \text { and } & x<-3
\end{array}
$$



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& -2 x-5>1 \\
x>4 & \text { and } & -2 x>6 \\
x<-3
\end{array}
$$



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\text { 9. } \begin{array}{rll} 
& x-1>3 & \text { and } \\
& -2 x-5>1 \\
x>4 & \text { and } & -2 x>6 \\
x<-3
\end{array}
$$



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\text { 9. } \begin{array}{rlr} 
& x-1>3 & \text { and } \\
& -2 x-5>1 \\
x>4 & \text { and } & -2 x>6 \\
x<-3
\end{array}
$$

no solution


## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.
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Solve each of the following for $x$. Represent the solution set as an interval or the union of intervals and sketch its graph.

$$
\text { 9. } \begin{array}{rll}
x-1>3 & \text { and } & -2 x-5>1 \\
& & -2 x>6 \\
x>4 & \text { and } & x<-3
\end{array}
$$

no solution


## Algebra II Class Worksheet \#3 Unit 4

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$$
\text { 9. } \begin{array}{rll}
x-1>3 & \text { and } & -2 x-5>1 \\
& & -2 x>6 \\
x>4 & \text { and } & x<-3
\end{array}
$$

no solution


## Algebra II Class Worksheet \#3 Unit 4

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Step 3: Express the final solution in simplest form.
Solve each of the following for $x$. Represent the solution set as an interval or the union of intervals and sketch its graph.

$$
\text { 9. } \begin{aligned}
& x-1>3 \text { and } \\
&-2 x-5>1 \\
& x>4 \text { and } \\
&-2 x>6 \\
& x<-3
\end{aligned}
$$

no solution

$$
\mathbf{S}=\varnothing
$$



## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 1 and
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'intersection' of the solution sets of the basic inequalities.
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## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 2 or

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 2 or

Solve each of the following for $x$. Represent the solution set as an interval or the union of intervals and sketch its graph.
10. $2 x+7 \geq 1$ or $3 x-2 \geq 10$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 2 or Step 1: Solve each basic inequality.

Solve each of the following for $x$. Represent the solution set as an interval or the union of intervals and sketch its graph.
10. $2 x+7 \geq 1$ or $3 x-2 \geq 10$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 2 or Step 1: Solve each basic inequality.

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

$$
\begin{aligned}
& \text { 10. } 2 x+7 \geq 1 \text { or } 3 x-2 \geq 10 \\
& 2 x
\end{aligned}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 2 or Step 1: Solve each basic inequality.

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

$$
\begin{aligned}
& \text { 10. } 2 x+7 \geq 1 \text { or } 3 x-2 \geq 10 \\
& 2 x \geq
\end{aligned}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 2 or Step 1: Solve each basic inequality.

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

$$
\begin{aligned}
& \text { 10. } 2 x+7 \geq 1 \text { or } 3 x-2 \geq 10 \\
& 2 x \geq-6
\end{aligned}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 2 or Step 1: Solve each basic inequality.

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

$$
\begin{aligned}
& \text { 10. } 2 x+7 \geq 1 \text { or } 3 x-2 \geq 10 \\
& 2 x \geq-6 \\
& x
\end{aligned}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 2 or Step 1: Solve each basic inequality.

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

$$
\text { 10. } \begin{aligned}
& 2 x+7 \geq 1 \text { or } 3 x-2 \geq 10 \\
& 2 x \geq-6 \\
& x \geq
\end{aligned}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 2 or Step 1: Solve each basic inequality.

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

$$
\text { 10. } \begin{aligned}
2 x & +7 \geq 1 \text { or } 3 x-2 \geq 10 \\
2 x & \geq-6 \\
x & \geq-3
\end{aligned}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 2 or Step 1: Solve each basic inequality.

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

$$
\text { 10. } \begin{array}{rl}
2 x+7 \geq 1 & \text { or } \\
2 x & 3 x-2 \geq 10 \\
2 x & 3 x \\
x & \geq-3
\end{array}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 2 or
Step 1: Solve each basic inequality.

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

$$
\text { 10. } \begin{array}{cc}
2 x+7 \geq 1 & \text { or } \\
2 x & 3 x-2 \geq 10 \\
2 x & 3 x \geq \\
x \geq-3 &
\end{array}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 2 or Step 1: Solve each basic inequality.

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

$$
\text { 10. } \begin{array}{cc}
2 x+7 \geq 1 & \text { or } \\
2 x-2 \geq-6 & 3 x \geq 10 \\
2 x \geq-3 &
\end{array}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 2 or Step 1: Solve each basic inequality.

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

$$
\text { 10. } \begin{array}{ccc}
2 x+7 \geq 1 & \text { or } & 3 x-2 \geq 10 \\
2 x \geq-6 & 3 x \geq 12 \\
x \geq-3 & x
\end{array}
$$

## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 2 or Step 1: Solve each basic inequality.

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2 x \geq-6 & 3 x \geq 12 \\
x \geq-3 & x \geq
\end{array}
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\text { 10. } \begin{array}{ccc}
2 x+7 \geq 1 & \text { or } & 3 x-2 \geq 10 \\
2 x \geq-6 & 3 x \geq 12 \\
x \geq-3 & x \geq 4
\end{array}
$$

## Algebra II Class Worksheet \#3 Unit 4

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2 x+7 \geq 1 & \text { or } & 3 x-2 \geq 10 \\
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\end{array}
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## Algebra II Class Worksheet \#3 Unit 4

Solving Compound Inequalities - Type 2 or
Step 1: Solve each basic inequality.
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Solve each of the following for $x$. Represent the solution set as an interval or the union of intervals and sketch its graph.

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\text { 10. } \begin{array}{rlc}
2 x+7 \geq 1 & \text { or } & 3 x-2 \geq 10 \\
2 x \geq-6 & & 3 x \geq 12 \\
x \geq-3 & \text { or } & x \geq 4
\end{array}
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& x \geq-3 & \text { or } \\
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\end{array}
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\end{array}
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& x \geq-3 & \text { or } \\
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\end{array}
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$$
\text { 10. } \begin{array}{lll}
2 x+7 \geq 1 & \text { or } & 3 x-2 \geq 10 \\
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& x \geq-3 & \text { or } \\
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Solving Compound Inequalities - Type 2 or
Step 1: Solve each basic inequality.
Step 2: The solution set of the compound inequality is the 'union' of the solution sets of the basic inequalities.
Step 3: Express the final solution in simplest form.
Solve each of the following for $x$. Represent the solution set as an interval or the union of intervals and sketch its graph.
12. $3 x+4 \geq 1$ or $-4 x+10>2$

$$
3 x \geq-3 \quad-4 x>-8
$$

$$
x \geq-1 \quad \text { or } \quad x<2
$$

$x$ can be any number.

$$
\mathbf{S}=(-\infty
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\text { 12. } \begin{aligned}
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& 3 x \geq-3 \\
& \text { or } \quad-4 x+10>2 \\
& x \geq-4 x>-8 \\
& x \quad \text { or } \quad x<2 \\
& x \text { can be any number. } \\
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\end{aligned}
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