## Algebra II

## Lesson \#2 Unit 4

## Class Worksheet \#2

For Worksheet \#2

## Algebra II CWS \#2 Unit 4

## Compound Inequalities with Two Variables

Graph the solution set of each of the following compound inequalities. Find the coordinates of any vertex.

1. $y>-2$ and $x+2 y<2$


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Graph the intersection of the two solution sets.

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3. $x-2 y>-2$ and $x+3 y>3$
$-2 y>-x-2 \quad 3 y$
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Type 1: Compound Inequalities with the Connective 'and'
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\begin{array}{rl}
-\mathbf{y} & \geq-\mathbf{x} \\
\mathbf{y} \leq \mathbf{x} & \mathbf{x} \leq \mathbf{2} \\
\hline
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## Algebra II CWS \#2 Unit 4

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5. $x>3$ or $2 x+3 y<9$


## Algebra II CWS \#2 Unit 4

Compound Inequalities with Two Variables
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\text { 5. } x>3 \text { or } 2 x+3 y<9
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Type 2: Compound Inequalities with the Connective 'or'
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3y


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Graph the solution set of each of the following compound inequalities. Find the coordinates of any vertex.
5. $x>3$ or $2 x+3 y<9$
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\begin{gathered}
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Compound Inequalities with Two Variables
Graph the solution set of each of the following compound inequalities. Find the coordinates of any vertex.

$$
\text { 5. } \begin{array}{rl}
x>3 \text { or } 2 & x+3 y<9 \\
3 y & <-2 x+9 \\
y & <(-2 / 3) x+3
\end{array}
$$



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Graph the union of the two solution sets.

## Algebra II CWS \#2 Unit 4

## Compound Inequalities with Two Variables

Graph the solution set of each of the following compound inequalities. Find the coordinates of any vertex.
6. $x+4 y>0$ or $x+y>0$


## Algebra II CWS \#2 Unit 4

Compound Inequalities with Two Variables
Graph the solution set of each of the following compound inequalities. Find the coordinates of any vertex.
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Graph the union of the two solution sets.

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Compound Inequalities with Two Variables
Graph the solution set of each of the following compound inequalities. Find the coordinates of any vertex.
6. $x+4 y>0$ or $x+y>0$


Type 2: Compound Inequalities with the Connective 'or'
Graph the union of the two solution sets.

## Algebra II CWS \#2 Unit 4

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## Algebra II CWS \#2 Unit 4

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4y


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## Algebra II CWS \#2 Unit 4

Compound Inequalities with Two Variables
Graph the solution set of each of the following compound inequalities. Find the coordinates of any vertex.
6. $x+4 y>0$ or $x+y>0$

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4 y>-x
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\end{aligned}
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Graph the solution set of each of the following compound inequalities. Find the coordinates of any vertex.
6. $x+4 y>0$ or $x+y>0$

$$
\begin{gathered}
4 y>-x \\
y>(-1 / 4) x
\end{gathered}
$$



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\begin{array}{cc}
4 y>-x & y> \\
y>(-1 / 4) x &
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## Algebra II CWS \#2 Unit 4

## Compound Inequalities with Two Variables

Graph the solution set of each of the following compound inequalities. Find the coordinates of any vertex.
7. $x-3 y<6$ or $2 x+y>-2$
$-3 y$


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## Algebra II CWS \#2 Unit 4

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Graph the solution set of each of the following compound inequalities. Find the coordinates of any vertex.
7. $x-3 y<6$ or $2 x+y>-2$
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Graph the solution set of each of the following compound inequalities. Find the coordinates of any vertex.
7. $x-3 y<6$ or $2 x+y>-2$
$-3 y<-x$


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## Algebra II CWS \#2 Unit 4

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7. $x-3 y<6$ or $2 x+y>-2$
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## Algebra II CWS \#2 Unit 4

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$$
-3 y<-x+6
$$

y


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7. $x-3 y<6$ or $2 x+y>-2$
$-3 y<-x+6$
$y>(1 / 3) x$


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## Algebra II CWS \#2 Unit 4

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$$
-3 y<-x+6 \quad y>-2 x-2
$$

$$
y>(1 / 3) x-2
$$



Type 2: Compound Inequalities with the Connective 'or'
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## Algebra II CWS \#2 Unit 4

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Graph the solution set of each of the following compound inequalities. Find the coordinates of any vertex.
8. $x+3 y \leq 9$ or $y-4 \geq 0$


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## Algebra II CWS \#2 Unit 4

Compound Inequalities with Two Variables
Graph the solution set of each of the following compound inequalities. Find the coordinates of any vertex.
8. $x+3 y \leq 9$ or $y-4 \geq 0$

3y


Type 2: Compound Inequalities with the Connective 'or'
Graph the union of the two solution sets.

## Algebra II CWS \#2 Unit 4

Compound Inequalities with Two Variables
Graph the solution set of each of the following compound inequalities. Find the coordinates of any vertex.
8. $x+3 y \leq 9$ or $y-4 \geq 0$
$3 \mathrm{y} \leq$


Type 2: Compound Inequalities with the Connective 'or'
Graph the union of the two solution sets.

## Algebra II CWS \#2 Unit 4

Compound Inequalities with Two Variables
Graph the solution set of each of the following compound inequalities. Find the coordinates of any vertex.
8. $x+3 y \leq 9$ or $y-4 \geq 0$

$$
3 y \leq-x
$$



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Graph the solution set of each of the following compound inequalities. Find the coordinates of any vertex.
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Graph the solution set of each of the following compound inequalities. Find the coordinates of any vertex.
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3 y \leq-x+9
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$$
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3 y \leq-x+9 & y \\
y \leq(-1 / 3) x+3 &
\end{array}
$$



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\end{array}
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3 y \leq-x+9 & y \geq 4 \\
y \leq(-1 / 3) x+3 &
\end{array}
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Type 2: Compound Inequalities with the Connective 'or'
Graph the union of the two solution sets.

## Algebra II CWS \#2 Unit 4

Compound Inequalities with Two Variables
Graph the solution set of each of the following compound inequalities. Find the coordinates of any vertex.

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\begin{array}{ccc}
\text { 8. } x+3 y \leq 9 & \text { or } & y-4 \geq 0 \\
3 y \leq-x+9 & y \geq 4 \\
y \leq(-1 / 3) x+3 &
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## Good luck on worksheet \#2.



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