## General Algebra II

## Lesson \#3 Unit 4

## Class Worksheet \#3

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

## General Algebra II CWS \#3 Unit 4

## Systems of Linear Inequalities with Two Variables

Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

1. $x-2 y \geq-6$
$x-y \leq 1$
$\mathrm{x}+8 \geq 0$


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Graph the intersection of the solution sets of all inequalities.

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\text { 1. } \begin{array}{ll}
x-2 y \geq-6 & -2 y \geq-x \\
x-y \leq 1 & \\
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\begin{gathered}
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y \leq(1 / 2) x+3 \\
-y \leq-x+1 \\
y \geq x-1
\end{gathered}
$$



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Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.
2. $x-y \leq 6$
$x+3 y \geq-6$
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Systems of Linear Inequalities with Two Variables
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.
3. $2 x-3 y \leq 15$
$2 \mathrm{x}+\mathrm{y} \leq 11$
$x+3 y \leq 18$
$-4 x+3 y \leq 33$
$x+y \geq-10$


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$$
\text { 3. } \begin{aligned}
2 x-3 y & \leq 15 \\
2 x+y & \leq 11 \\
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x+3 y \leq 18 & \\
-4 x+3 y \leq 33 & \\
x+y \geq-10 &
\end{array}
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## Graph the intersection of the solution sets of all inequalities.

## General Algebra II CWS \#3 Unit 4

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Graph each of the following systems of linear inequalities.
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x+-10 & 3 y \leq-x+18
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| ---: | ---: |
| $2 x+y \leq 11$ | $y \geq(2 / 3) x-5$ |
| $x+3 y \leq 18$ | $y \leq-2 x+11$ |
| $-4 x+3 y \leq 33$ | $y$ |
| $x+y \geq-10$ | $3 y \leq-x+18$ |
|  | $y$ |



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Graph the intersection of the solution sets of all inequalities.

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Systems of Linear Inequalities with Two Variables
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

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$x+y \geq-10$
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