Algebra II

Lesson #3 Unit 3

Class Worksheet #3

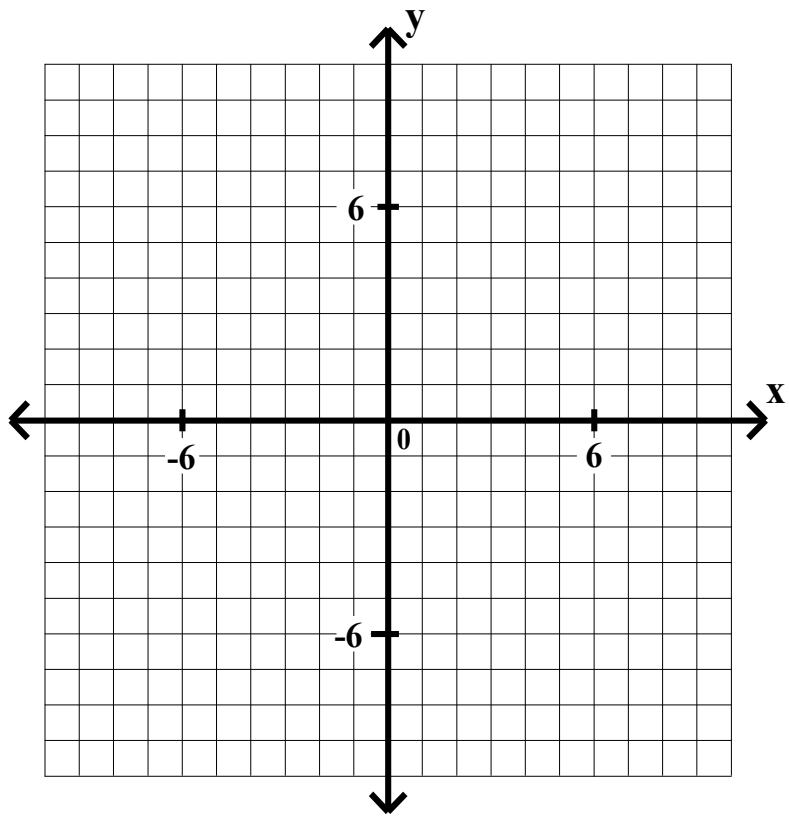
For Worksheet #3

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

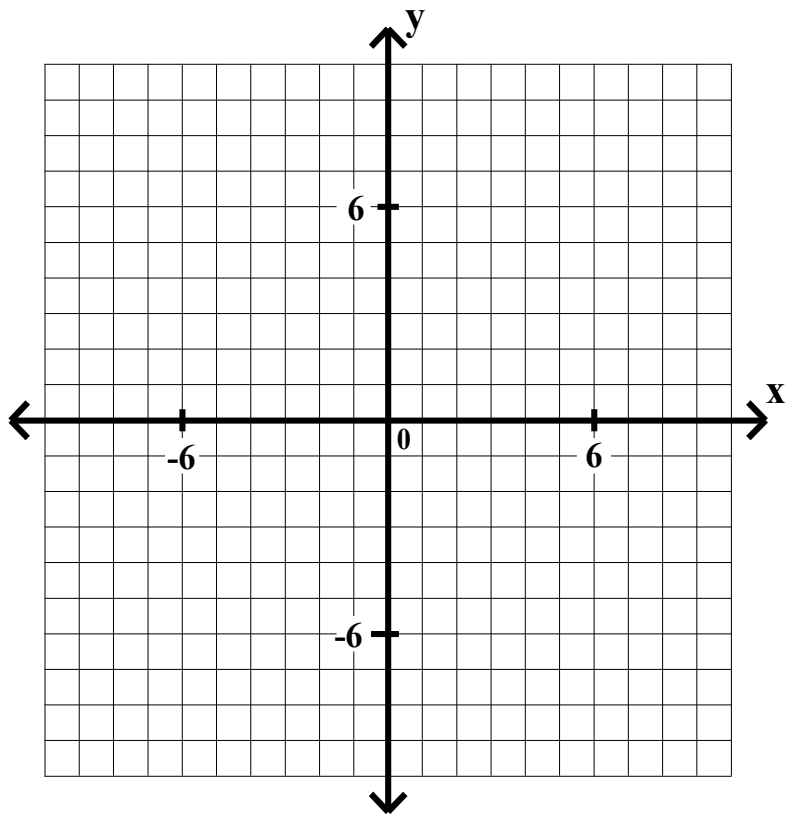


Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

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

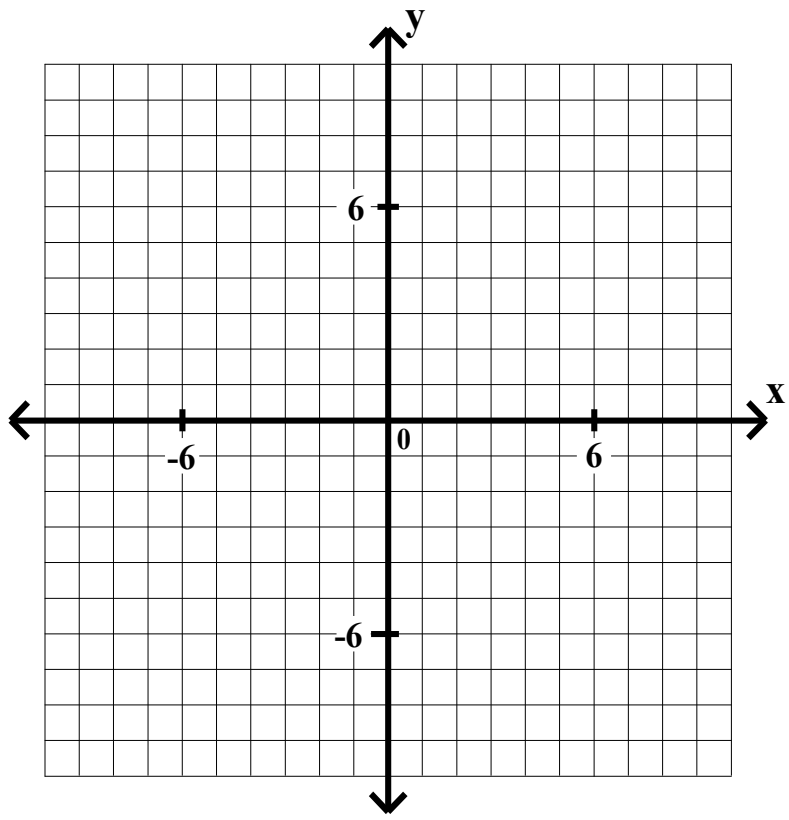


Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

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



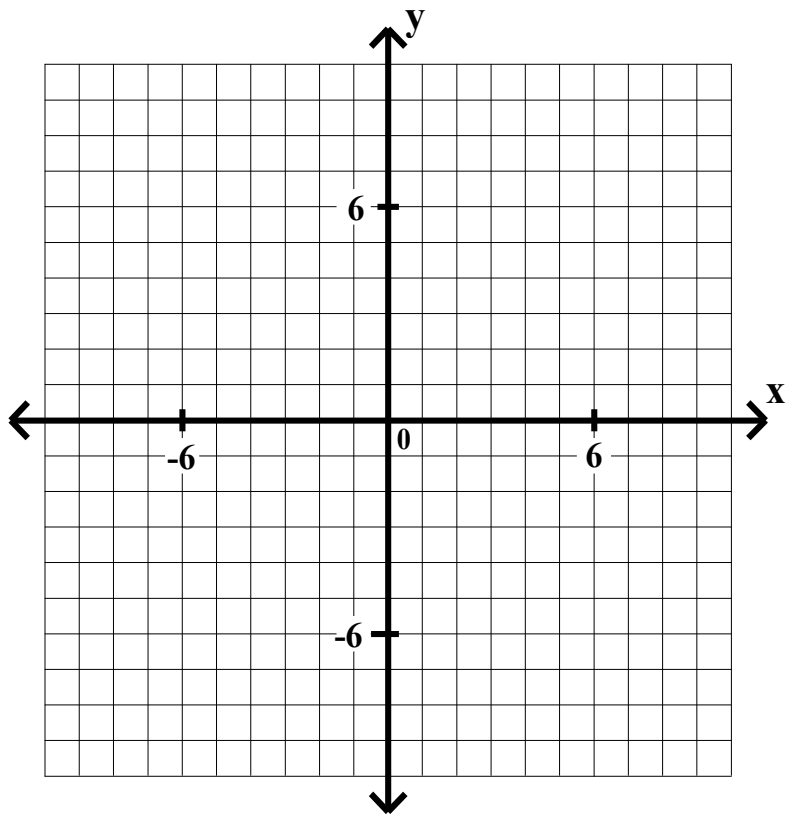
Graph the <u>intersection</u> of the solution sets of all inequalities.

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



Graph the intersection of the solution sets of all inequalities.

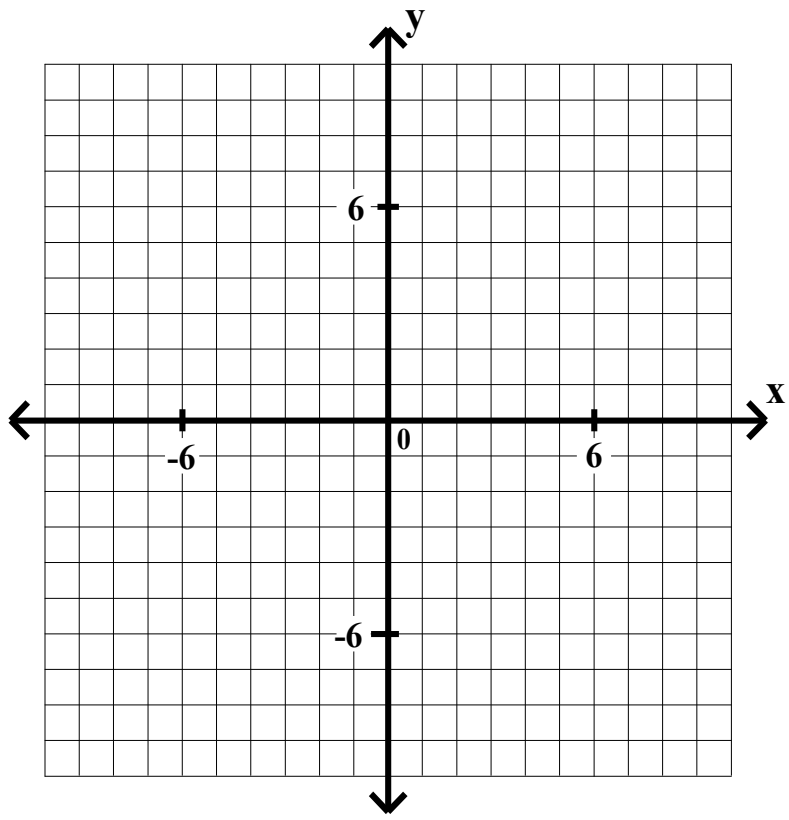
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

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

-2y



Graph the intersection of the solution sets of all inequalities.

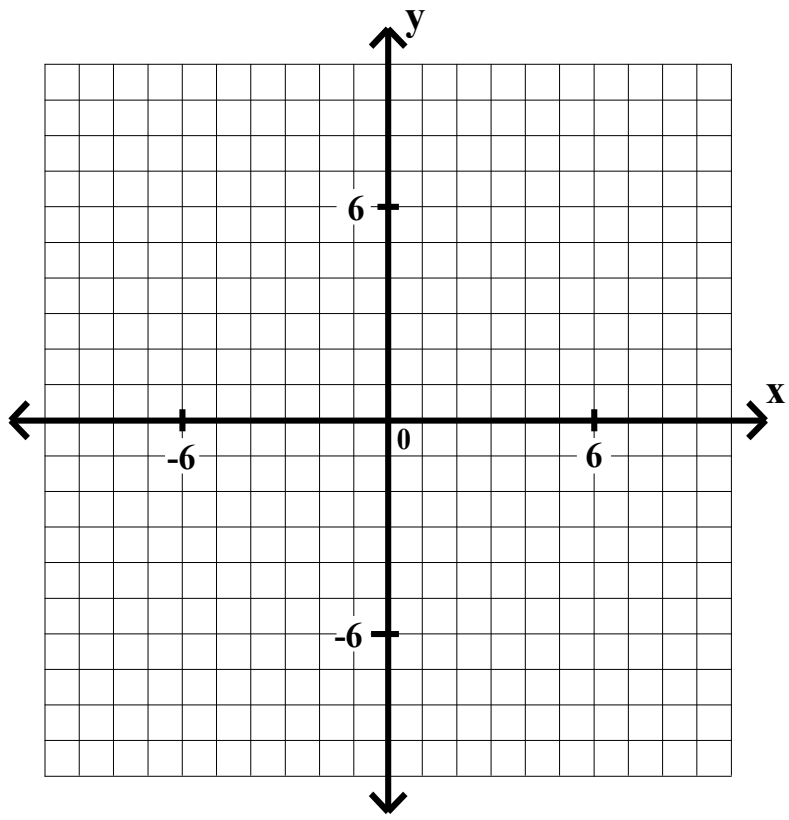
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq$



Graph the <u>intersection</u> of the solution sets of all inequalities.

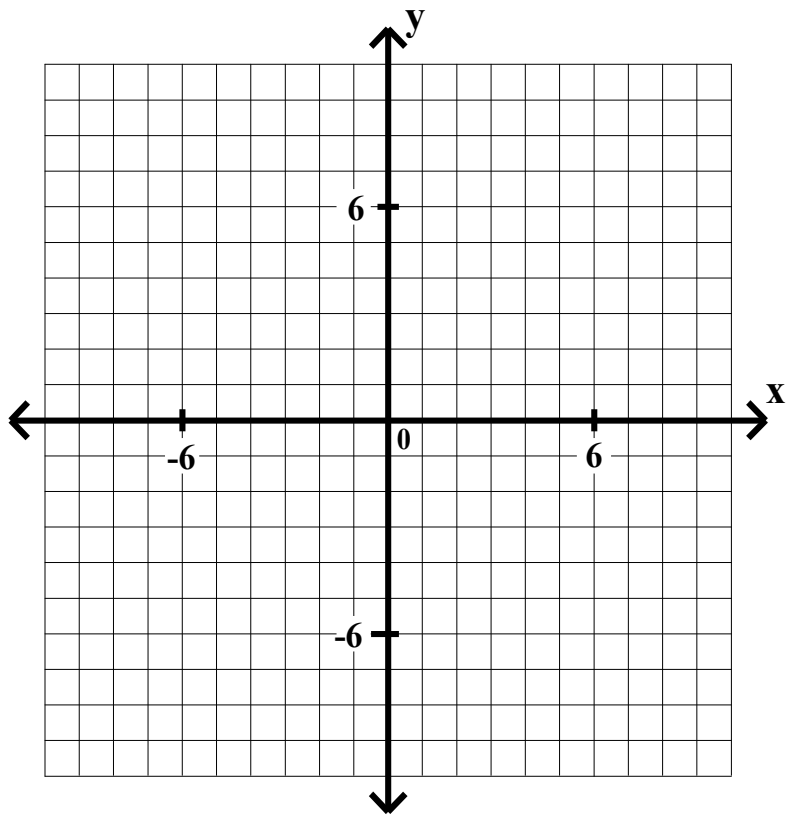
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x$



Graph the intersection of the solution sets of all inequalities.

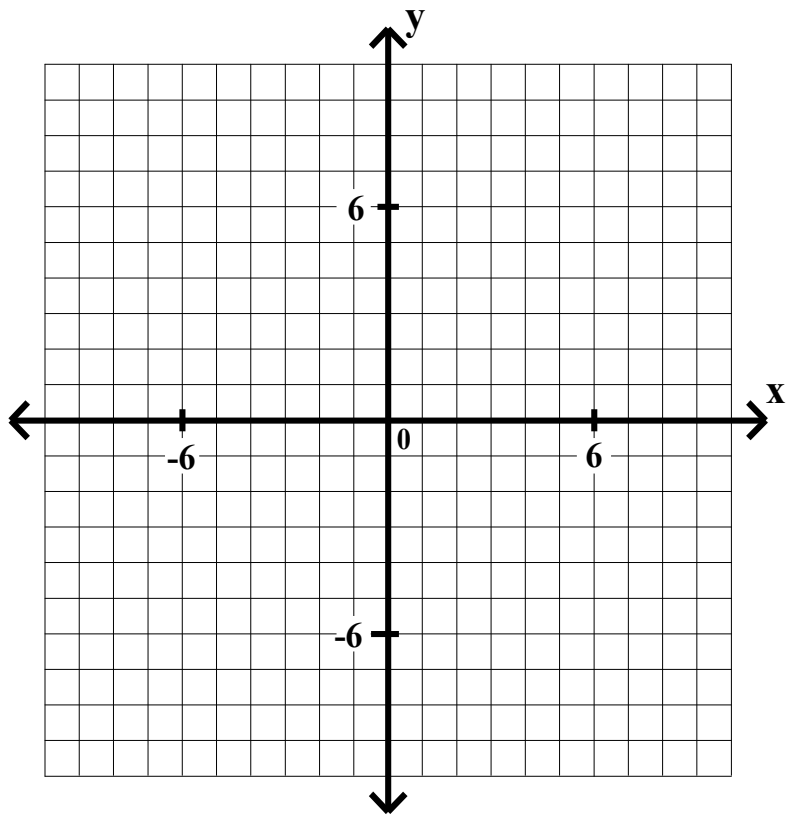
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x -$



Graph the intersection of the solution sets of all inequalities.

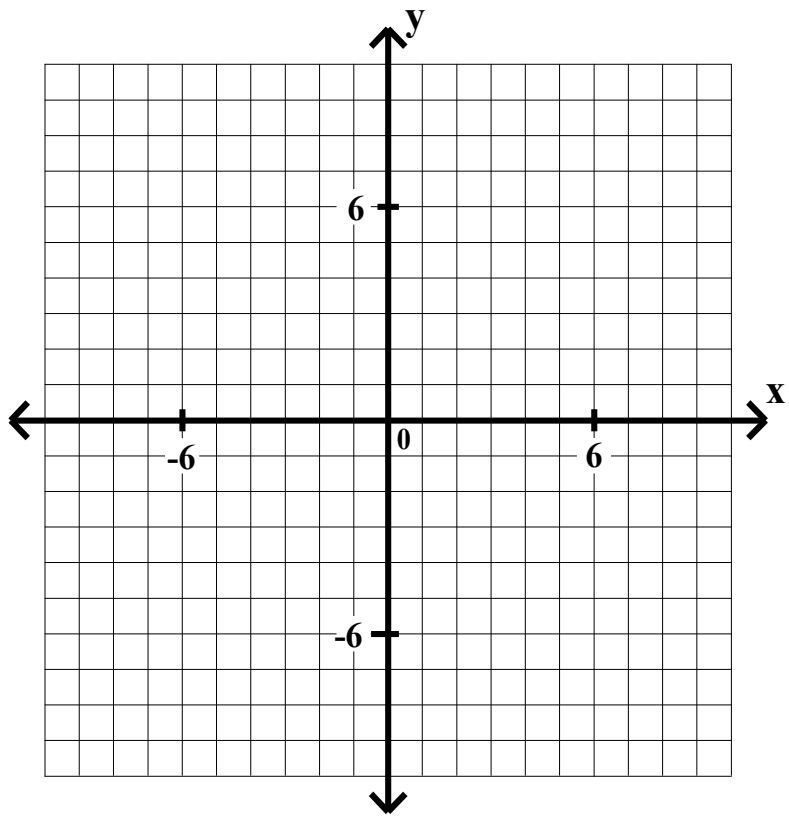
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

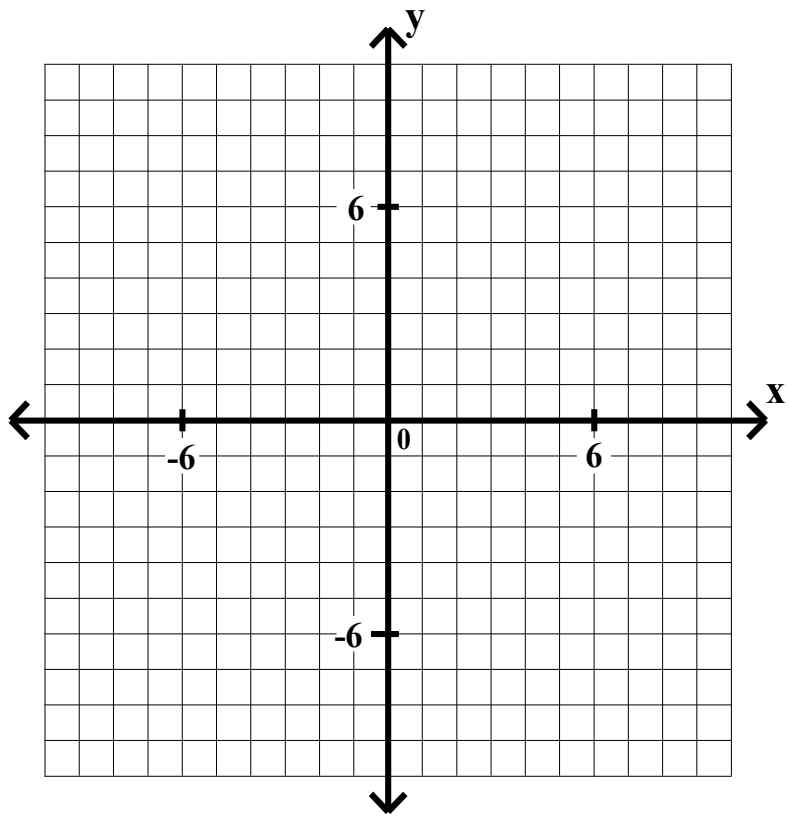
Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$

y



Graph the intersection of the solution sets of all inequalities.

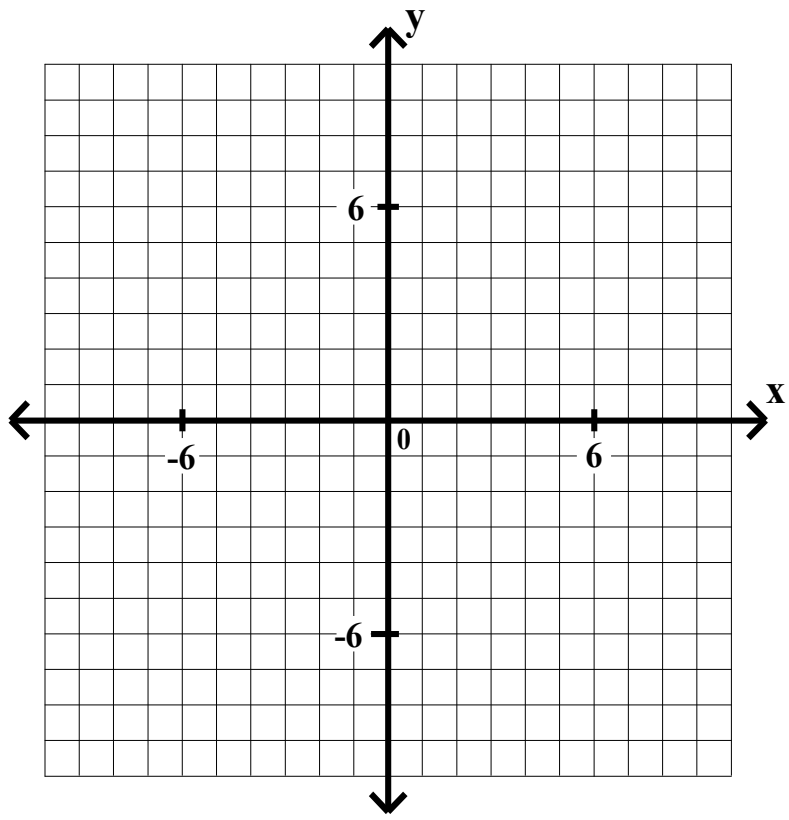
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq$



Graph the <u>intersection</u> of the solution sets of all inequalities.

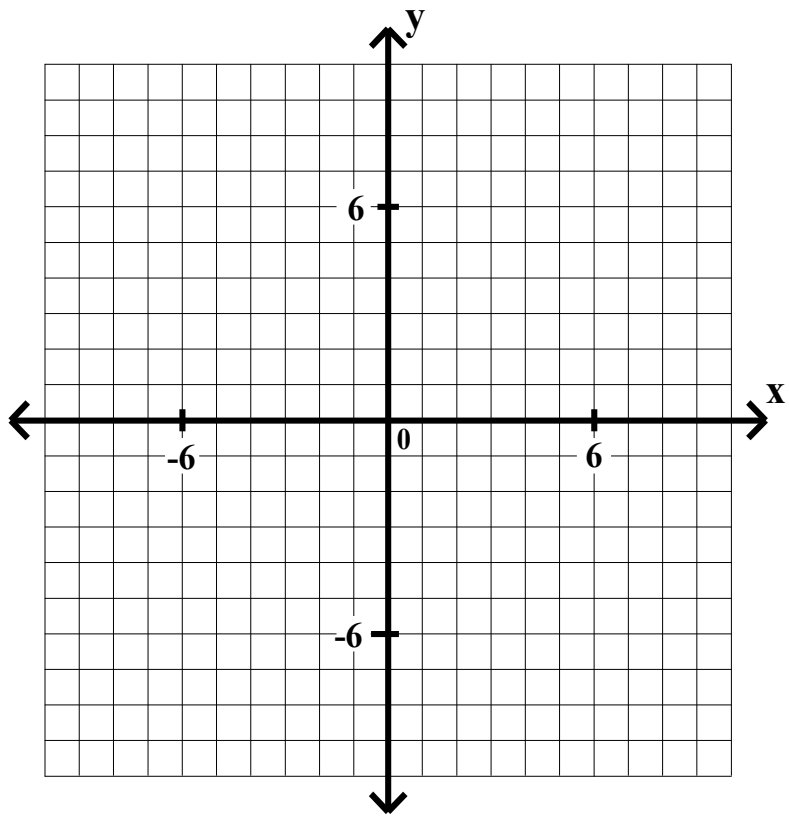
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq (1/2)x$



Graph the intersection of the solution sets of all inequalities.

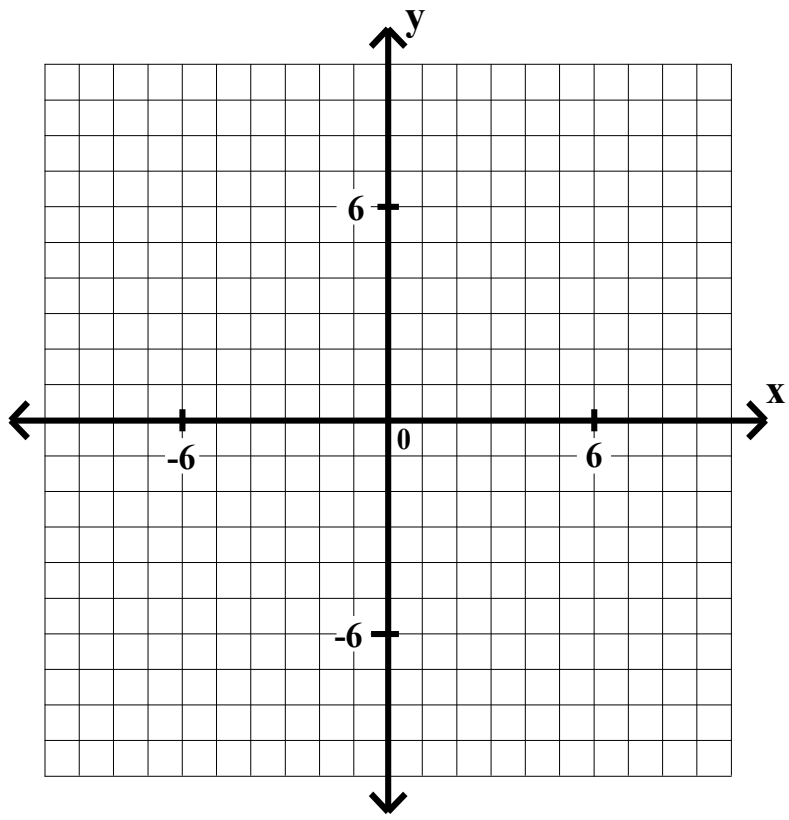
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq (1/2)x +$



Graph the <u>intersection</u> of the solution sets of all inequalities.

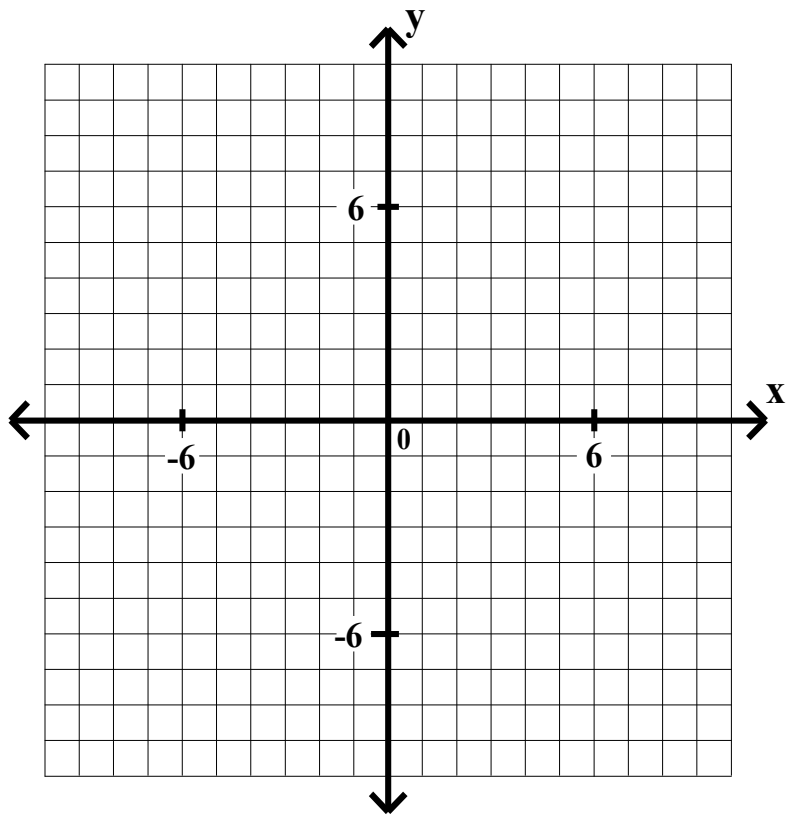
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$



Graph the <u>intersection</u> of the solution sets of all inequalities.

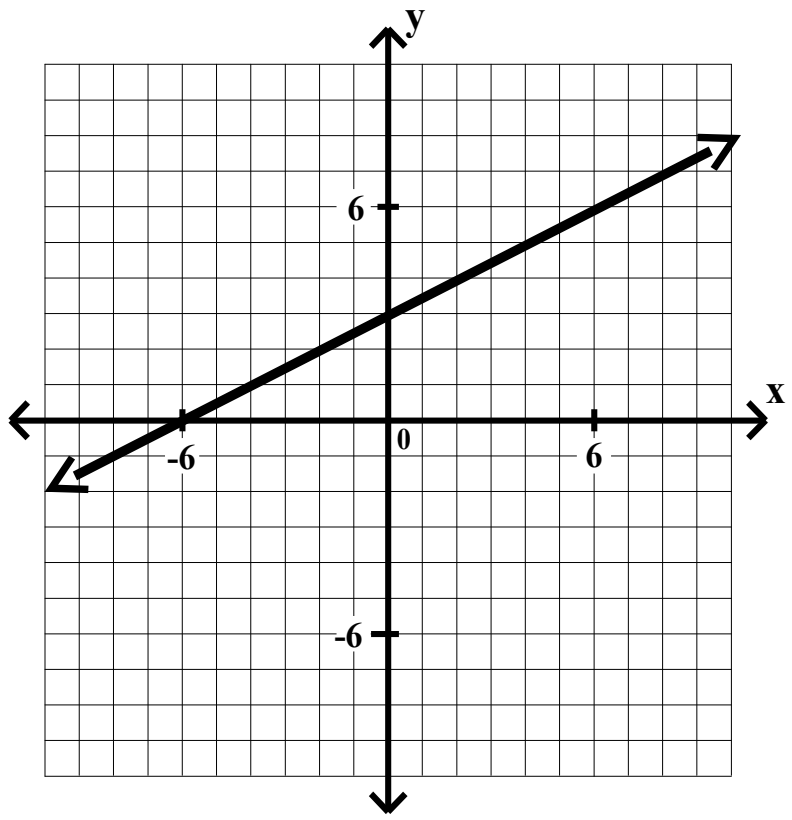
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$



Graph the <u>intersection</u> of the solution sets of all inequalities.

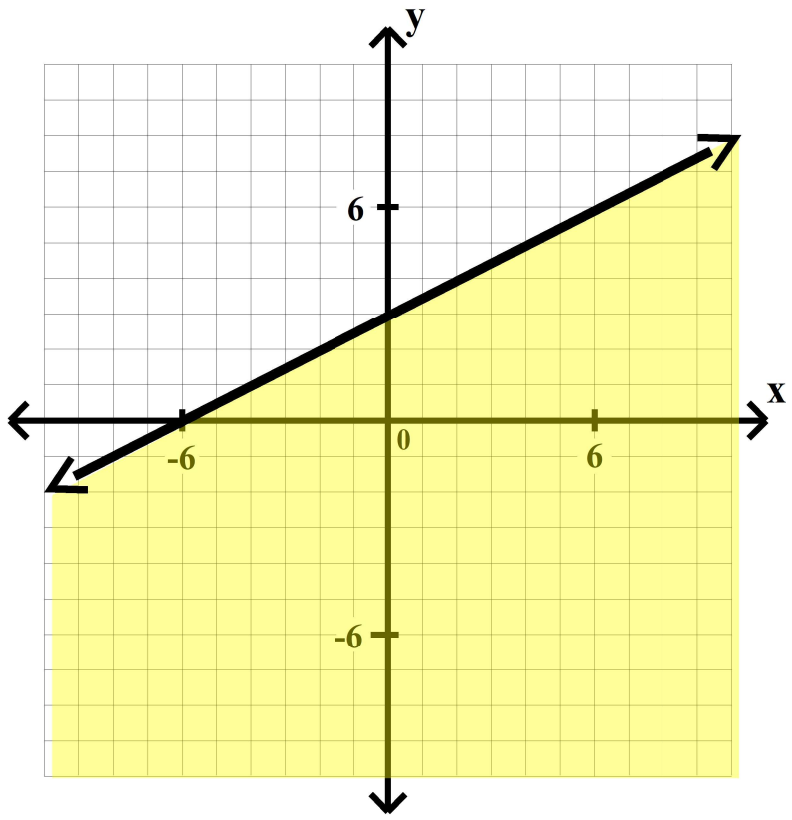
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$



Graph the <u>intersection</u> of the solution sets of all inequalities.

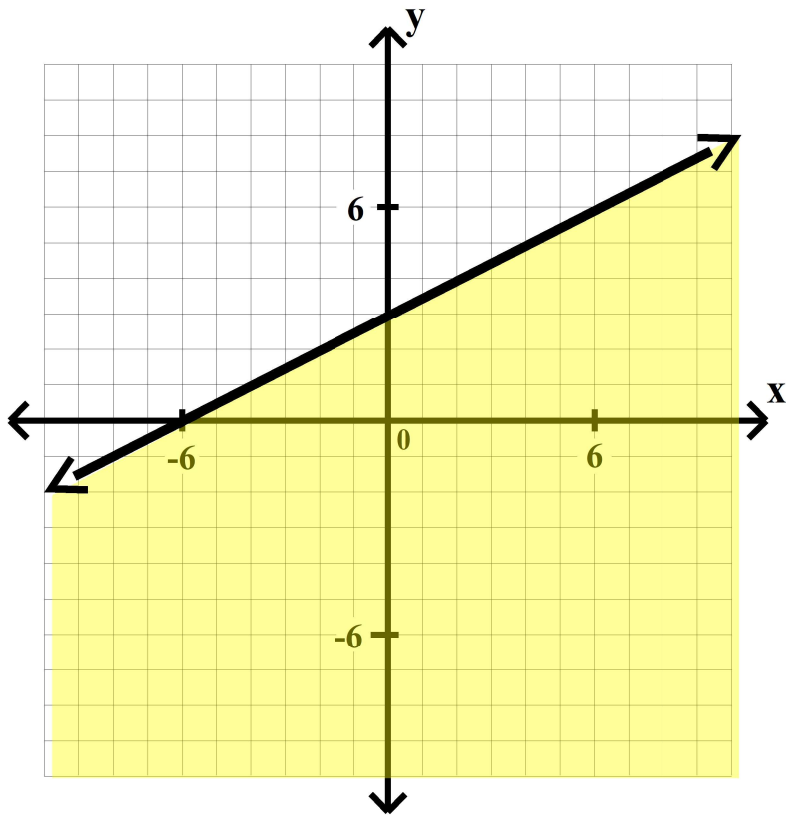
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

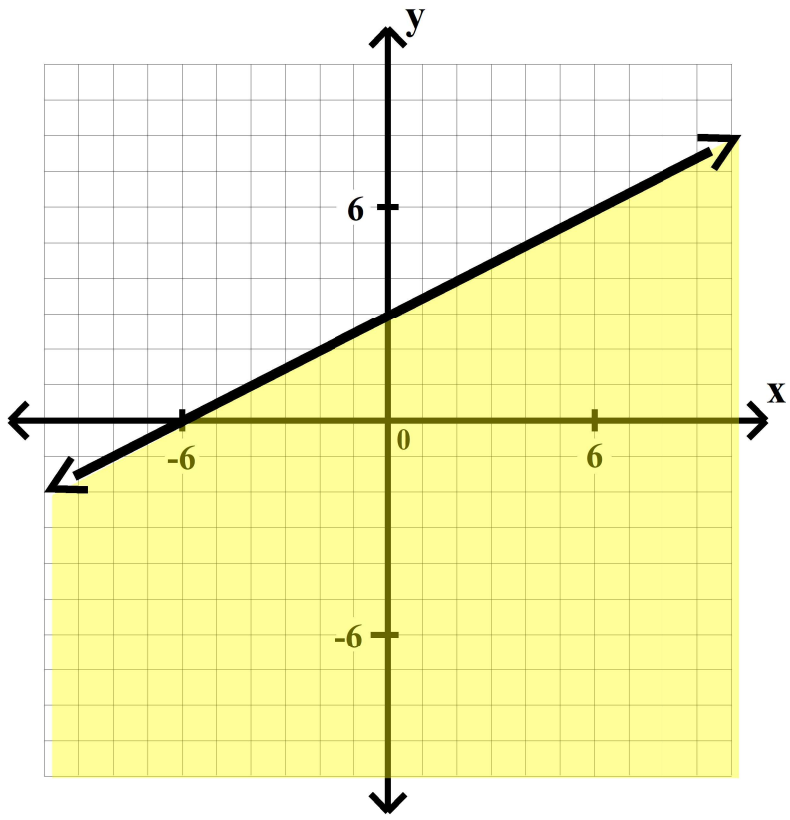
Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$

$-y$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

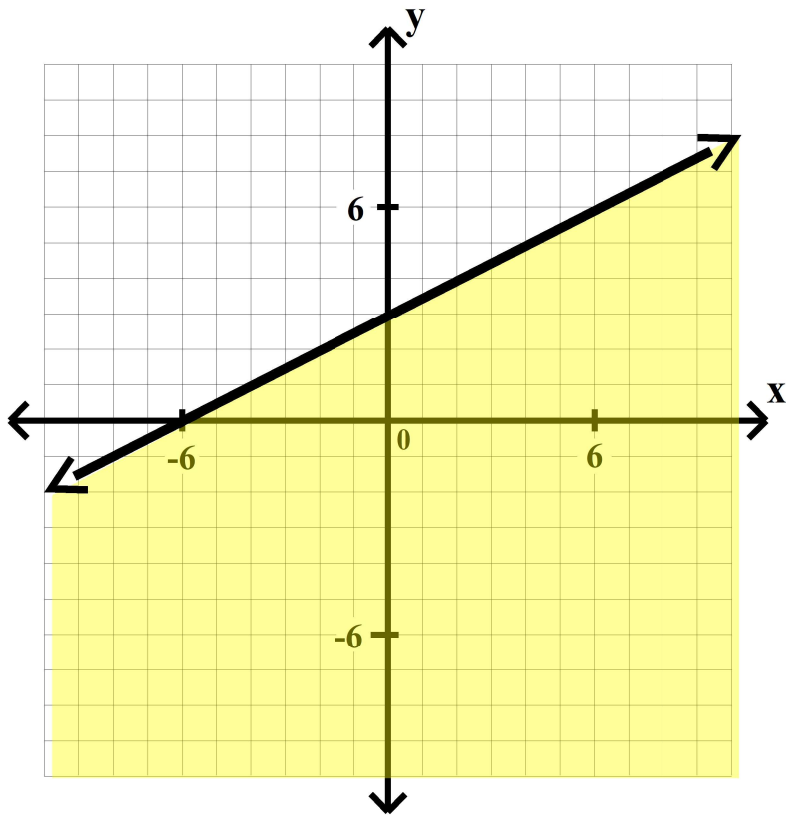
Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$

$-y \leq$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

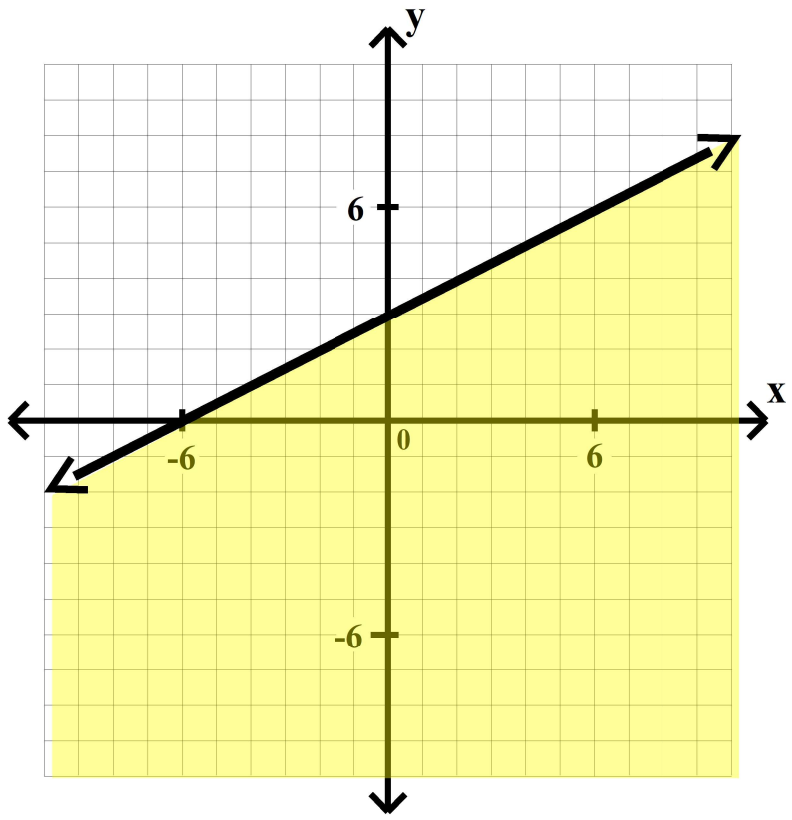
Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$

$-y \leq -x$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

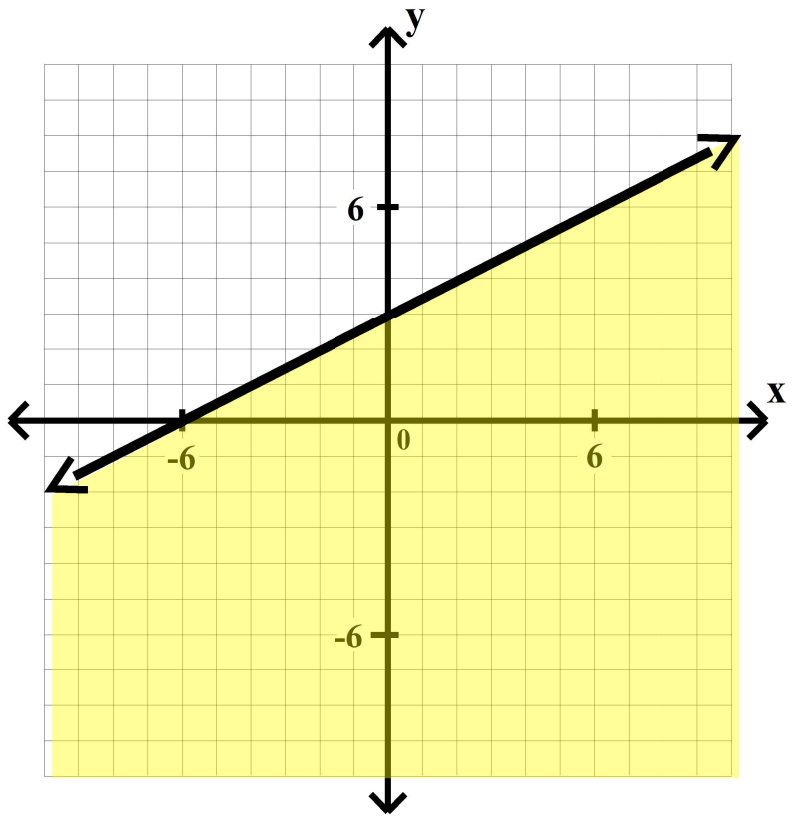
Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$

$-y \leq -x +$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

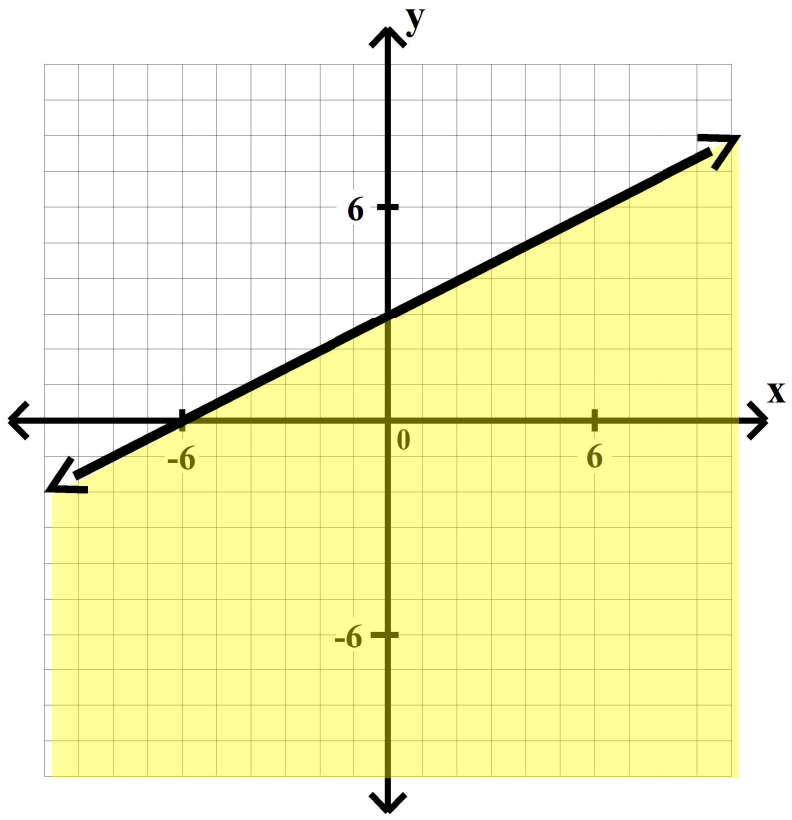
Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$

$-y \leq -x + 1$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

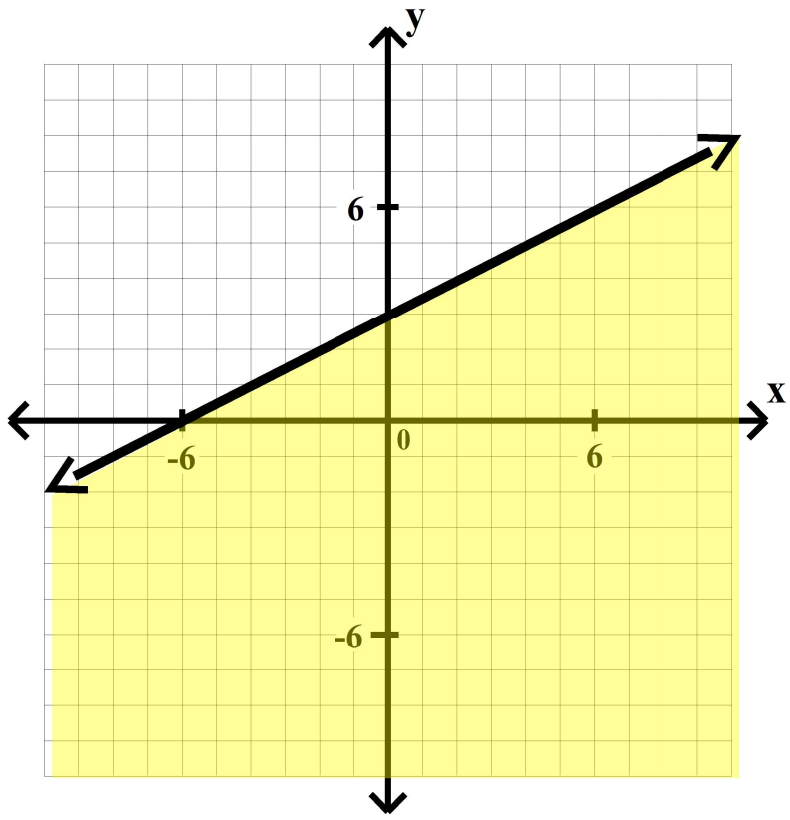
Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$

$-y \leq -x + 1$
y



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

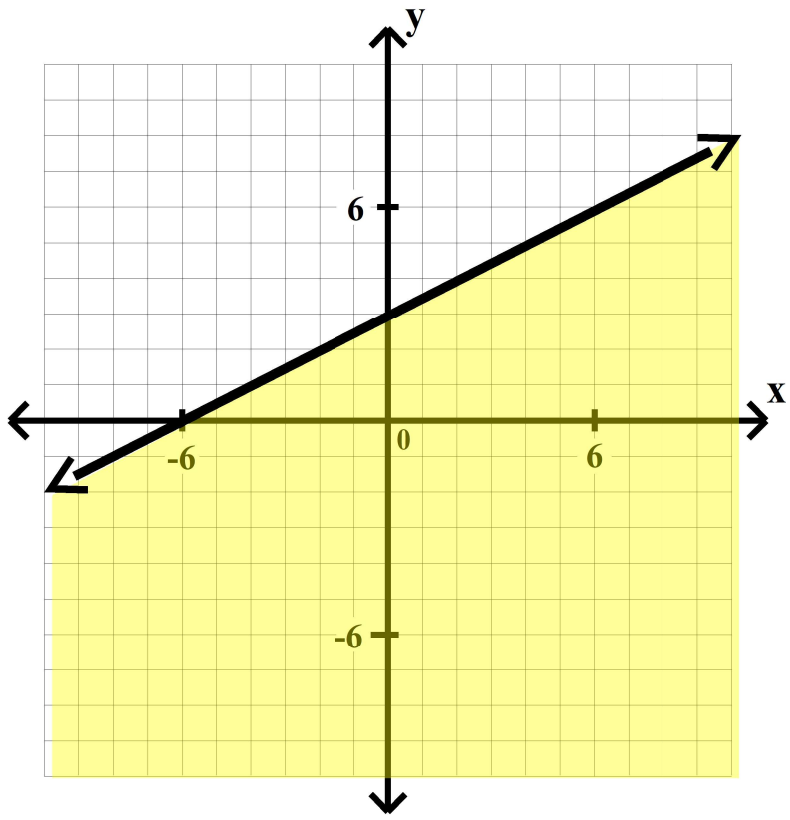
Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$

$-y \leq -x + 1$
$y \geq$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

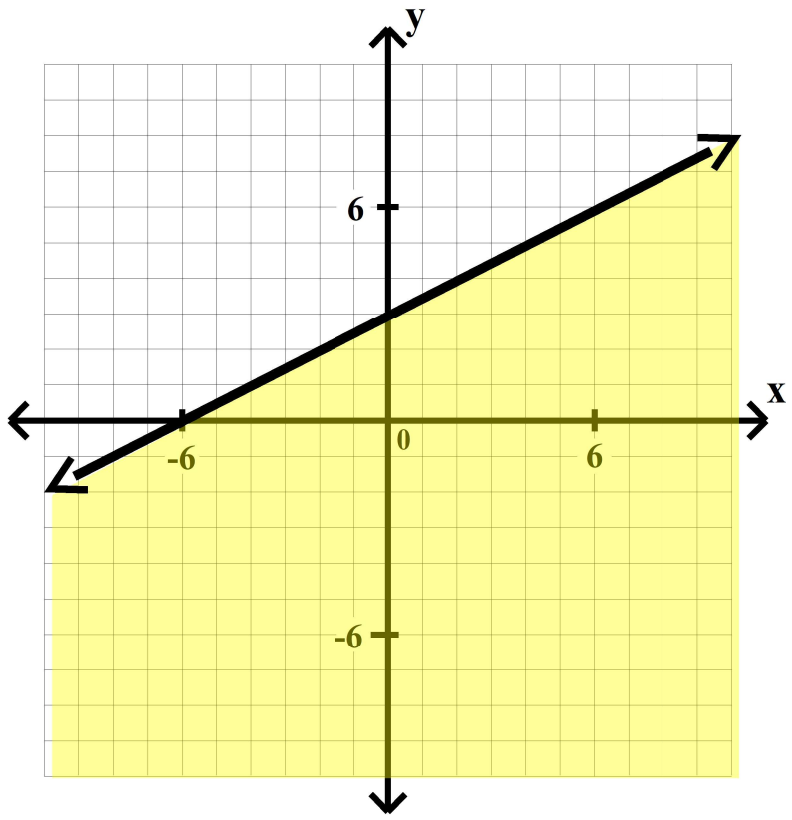
Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$

$-y \leq -x + 1$
$y \geq x$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

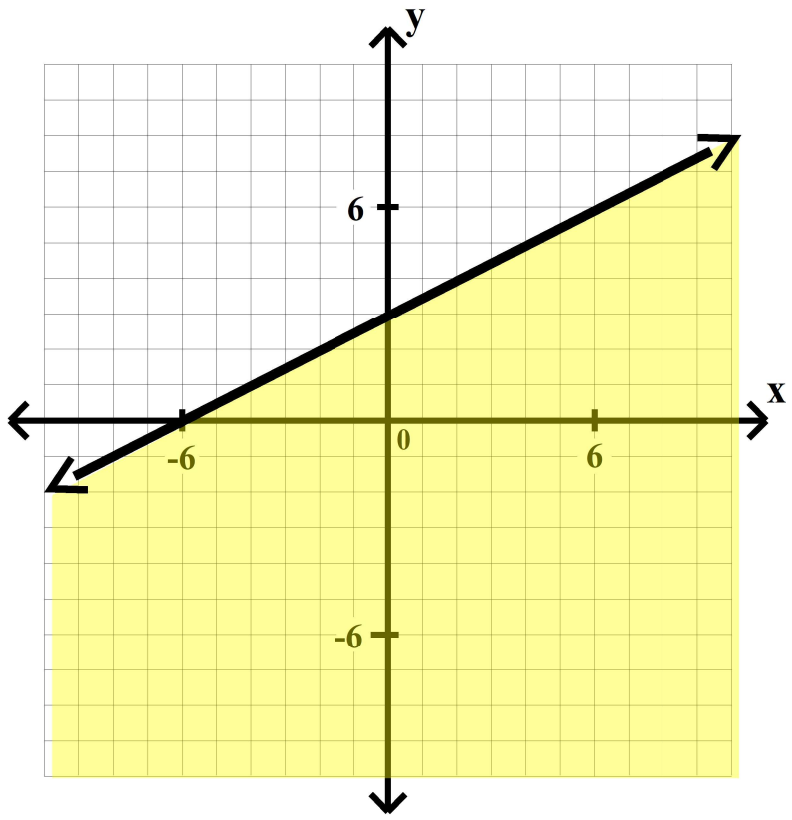
Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$

$-y \leq -x + 1$
$y \geq x -$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

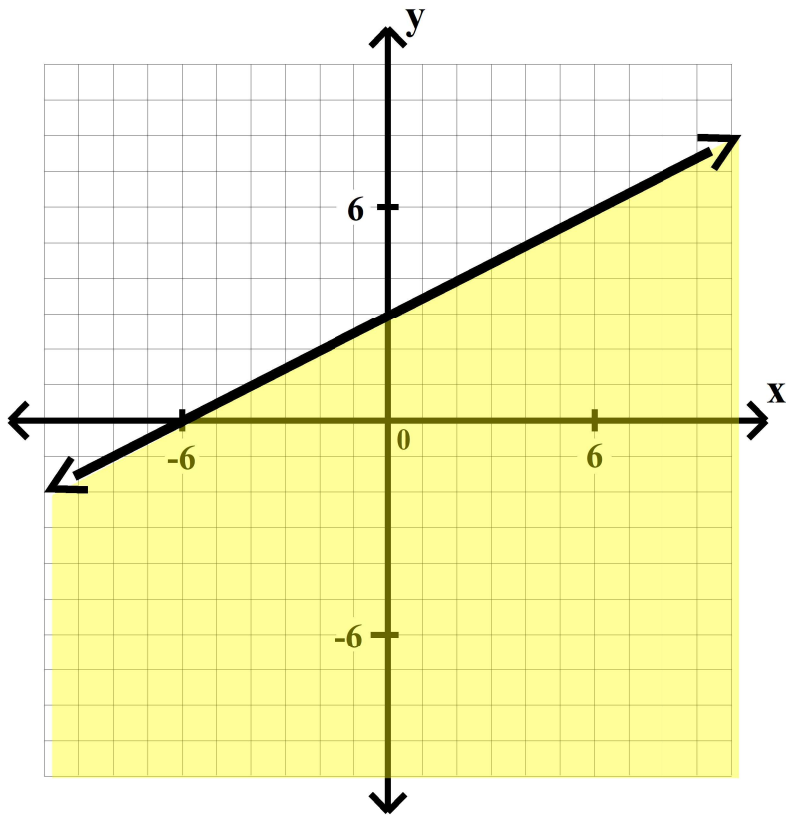
Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$

$-y \leq -x + 1$
$y \geq x - 1$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

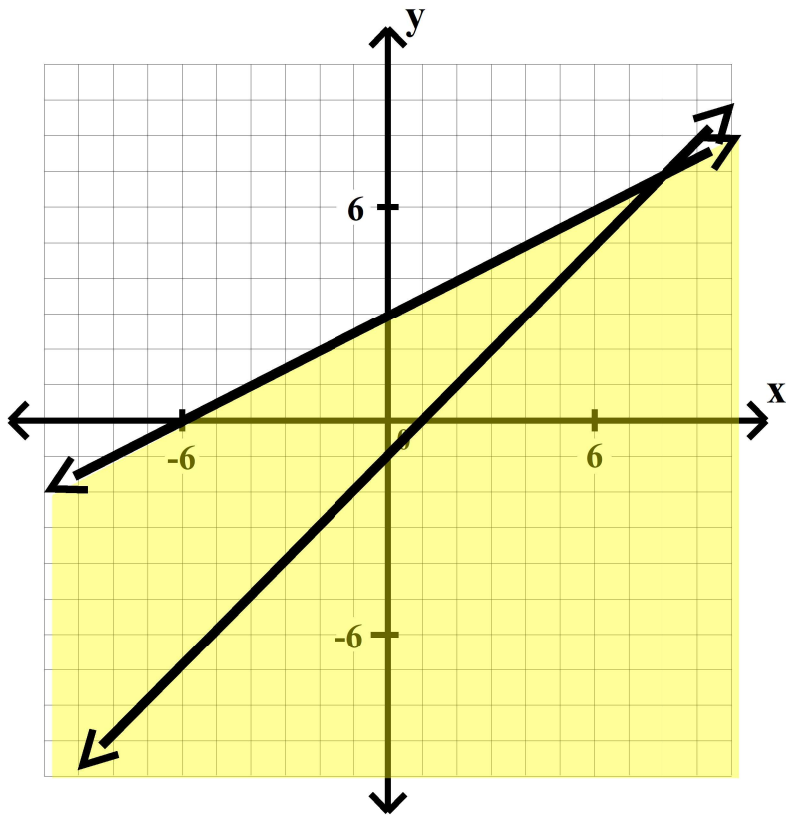
Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$

$-y \leq -x + 1$
$y \geq x - 1$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

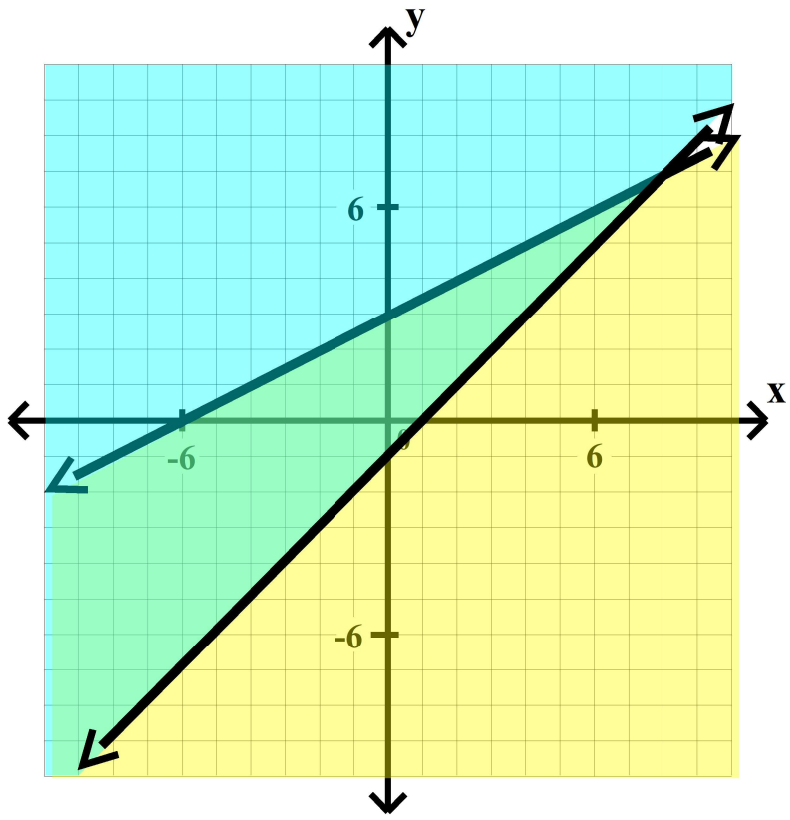
Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$

$-y \leq -x + 1$
$y \geq x - 1$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

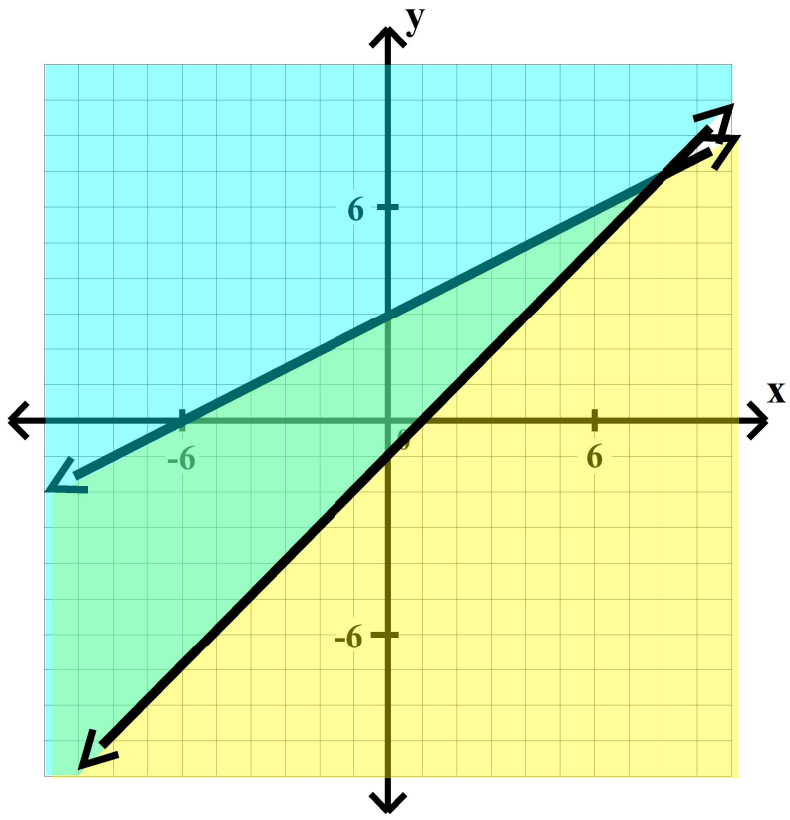
Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$

$-y \leq -x + 1$
$y \geq x - 1$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

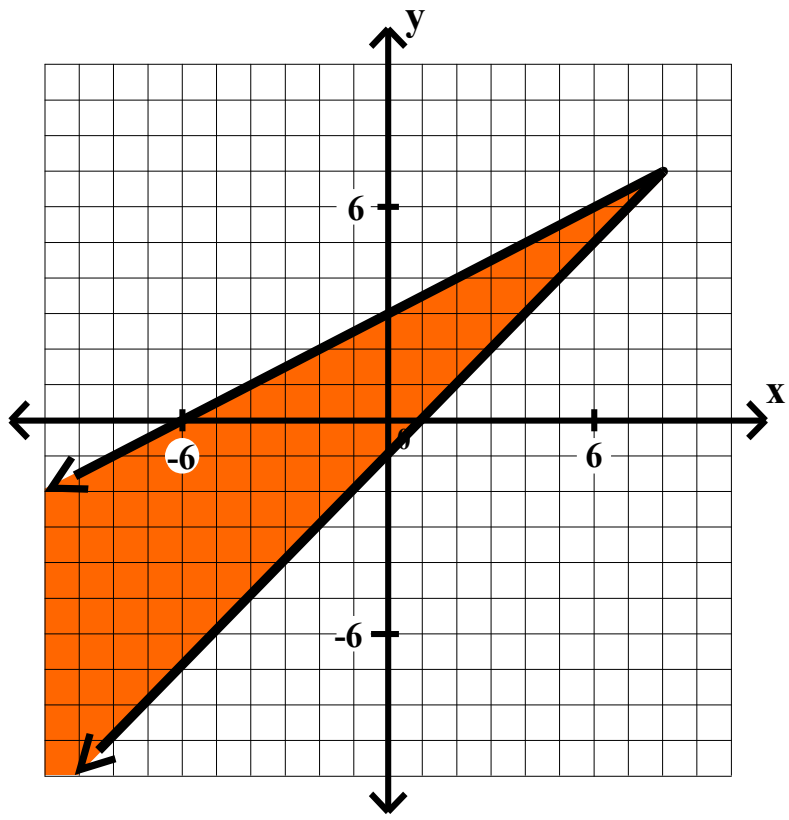
Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$

$-y \leq -x + 1$
$y \geq x - 1$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

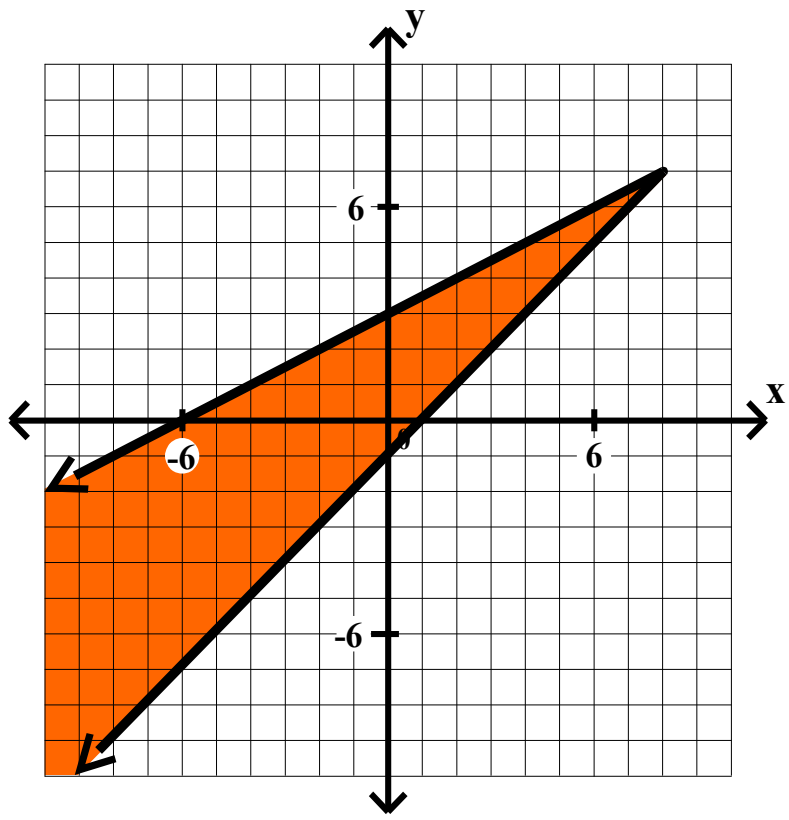
Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$

$-y \leq -x + 1$
$y \geq x - 1$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

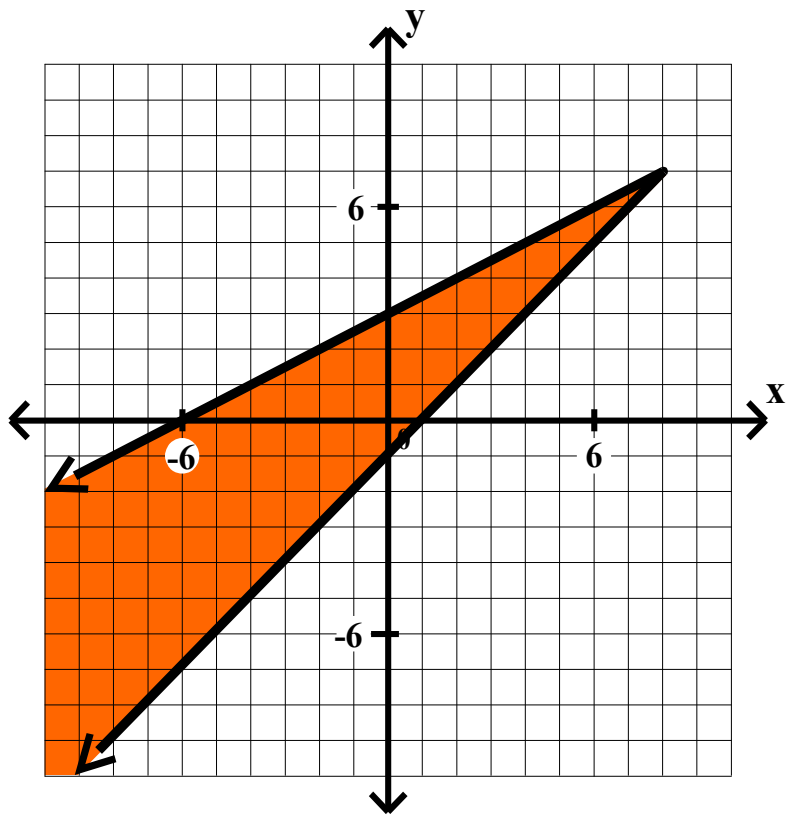
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

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

x

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$

$-y \leq -x + 1$
$y \geq x - 1$



Graph the intersection of the solution sets of all inequalities.

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. $x - 2y \geq -6$

$x - y \leq 1$

$x + 8 \geq 0$

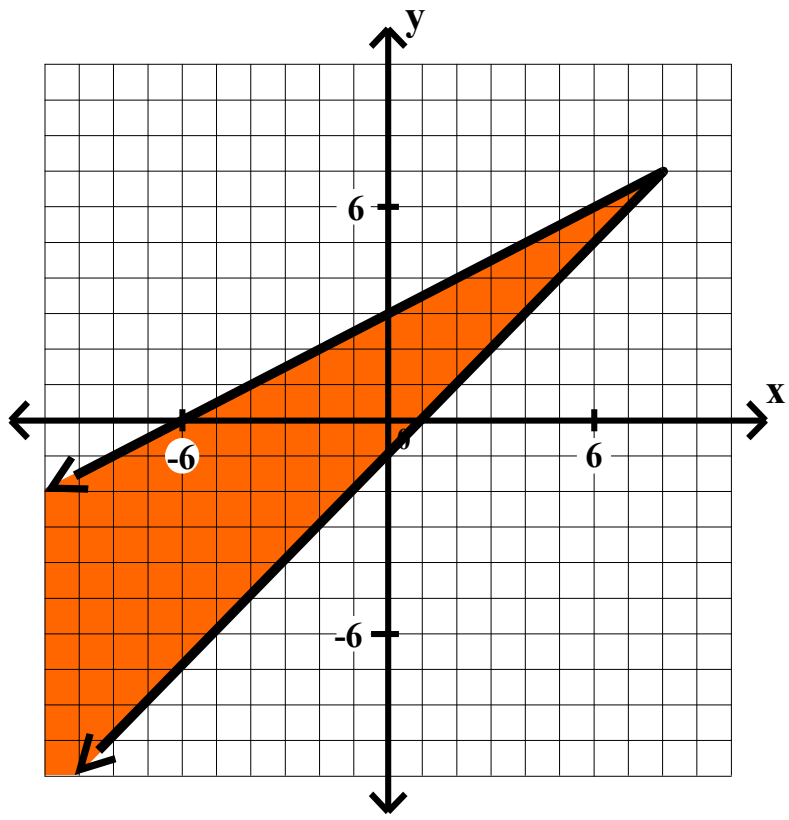
$x \geq$

$-2y \geq -x - 6$

$y \leq (1/2)x + 3$

$-y \leq -x + 1$

$y \geq x - 1$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

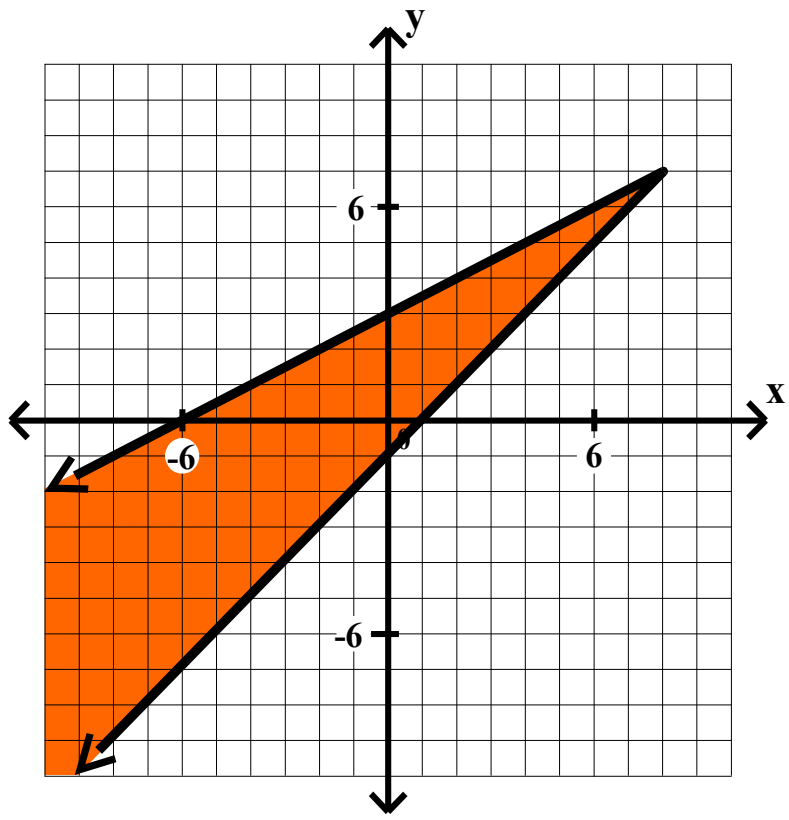
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

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

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$

$-y \leq -x + 1$
$y \geq x - 1$

$x \geq -8$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

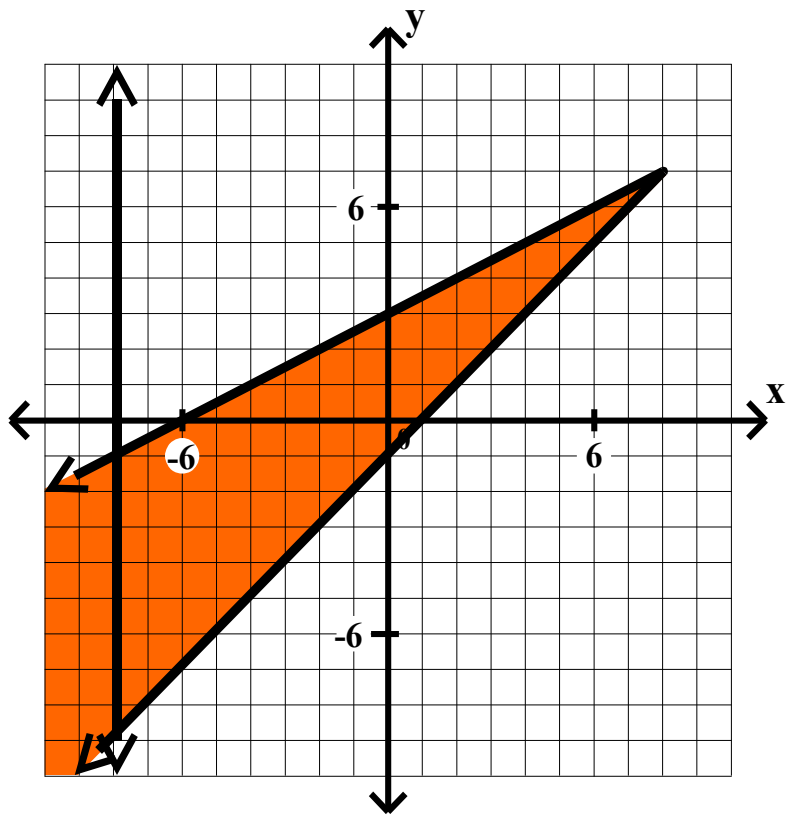
Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$

$-y \leq -x + 1$
$y \geq x - 1$



Graph the intersection of the solution sets of all inequalities.

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. $x - 2y \geq -6$

$x - y \leq 1$

$x + 8 \geq 0$

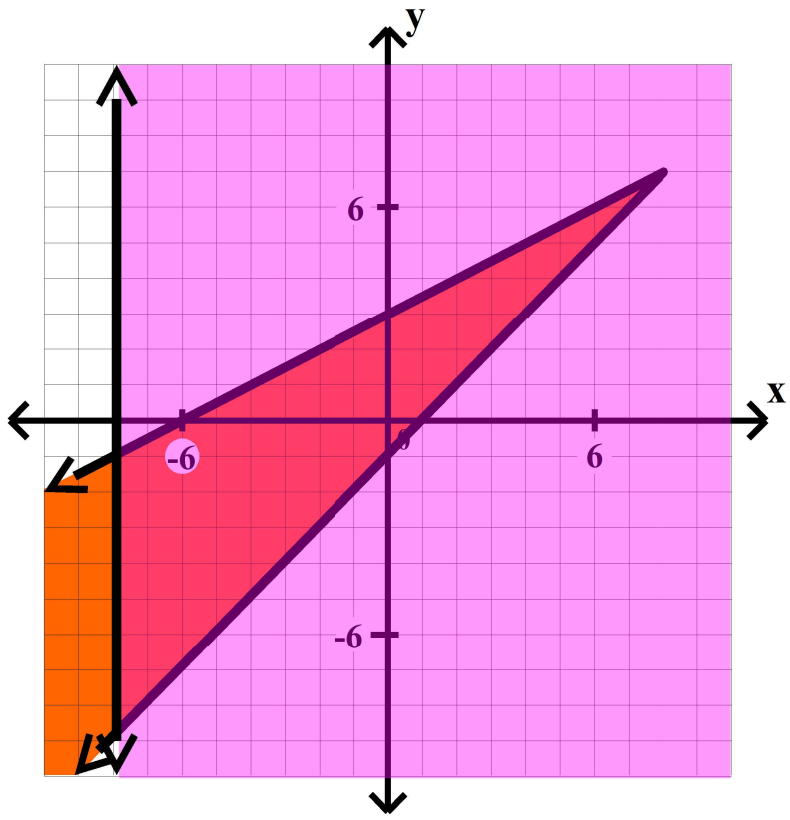
$x \geq -8$

$-2y \geq -x - 6$

$y \leq (1/2)x + 3$

$-y \leq -x + 1$

$y \geq x - 1$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

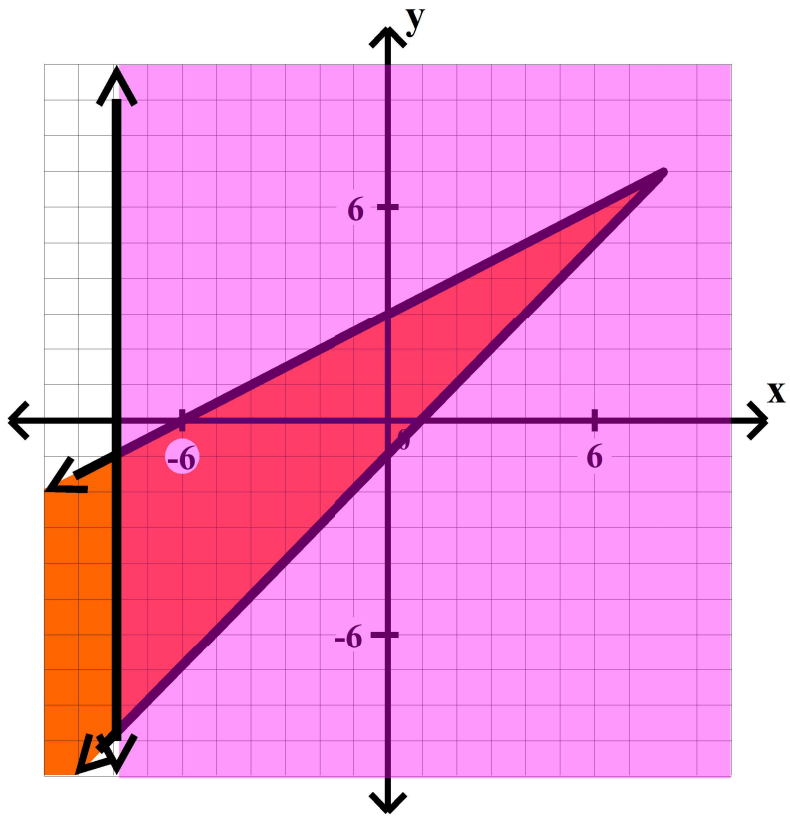
Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$

$-y \leq -x + 1$
$y \geq x - 1$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

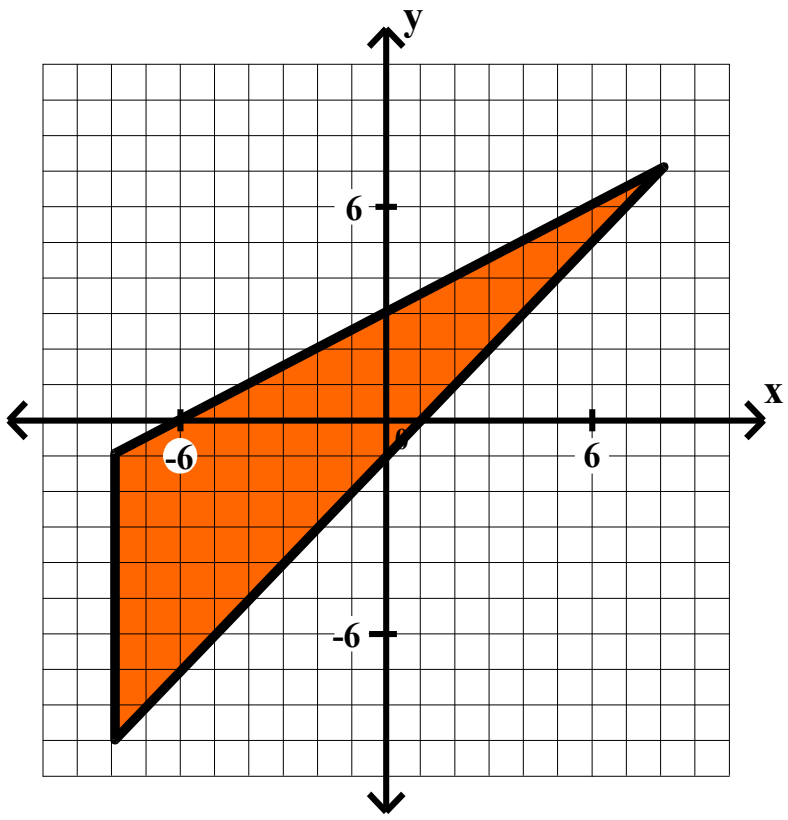
Systems of Linear Inequalities with Two Variables

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

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

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$

$-y \leq -x + 1$
$y \geq x - 1$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

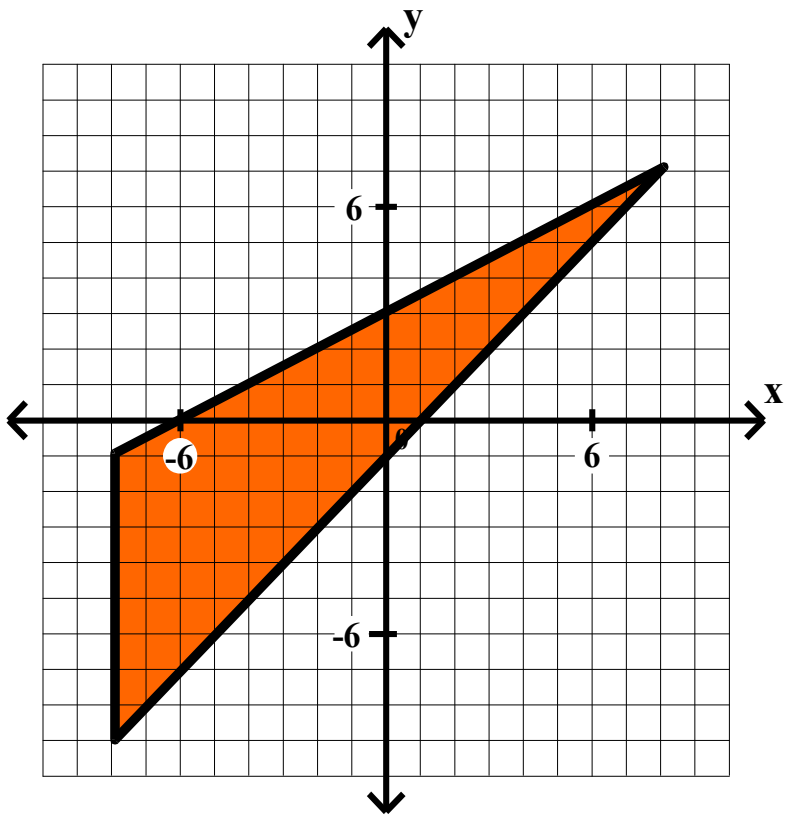
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

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

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$

$-y \leq -x + 1$
$y \geq x - 1$

$x \geq -8$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

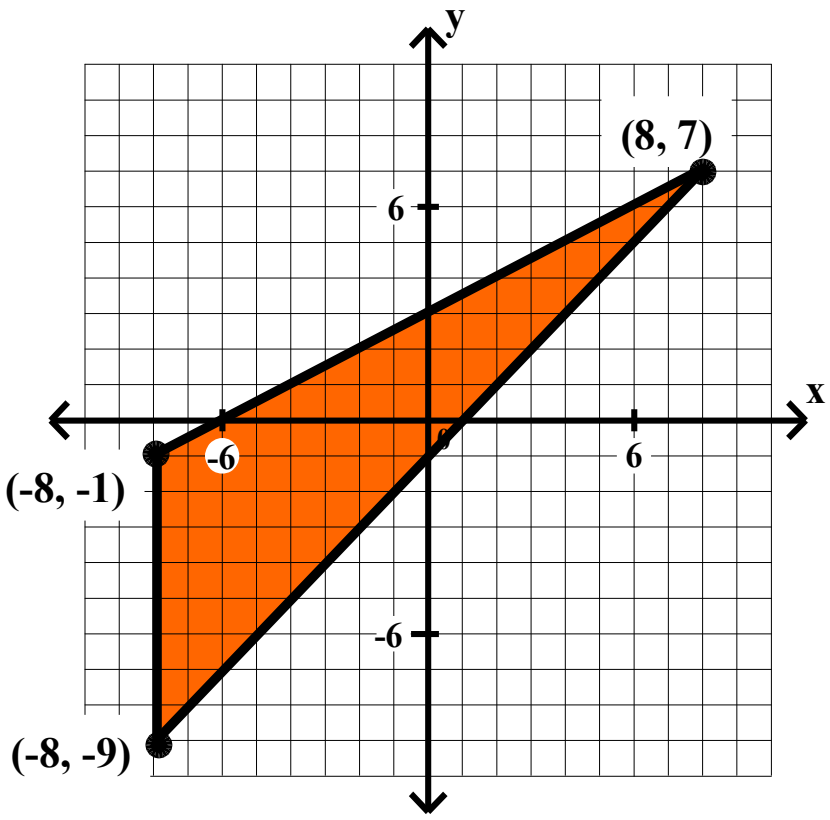
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

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

$x \geq -8$

$-2y \geq -x - 6$
$y \leq (1/2)x + 3$

$-y \leq -x + 1$
$y \geq x - 1$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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

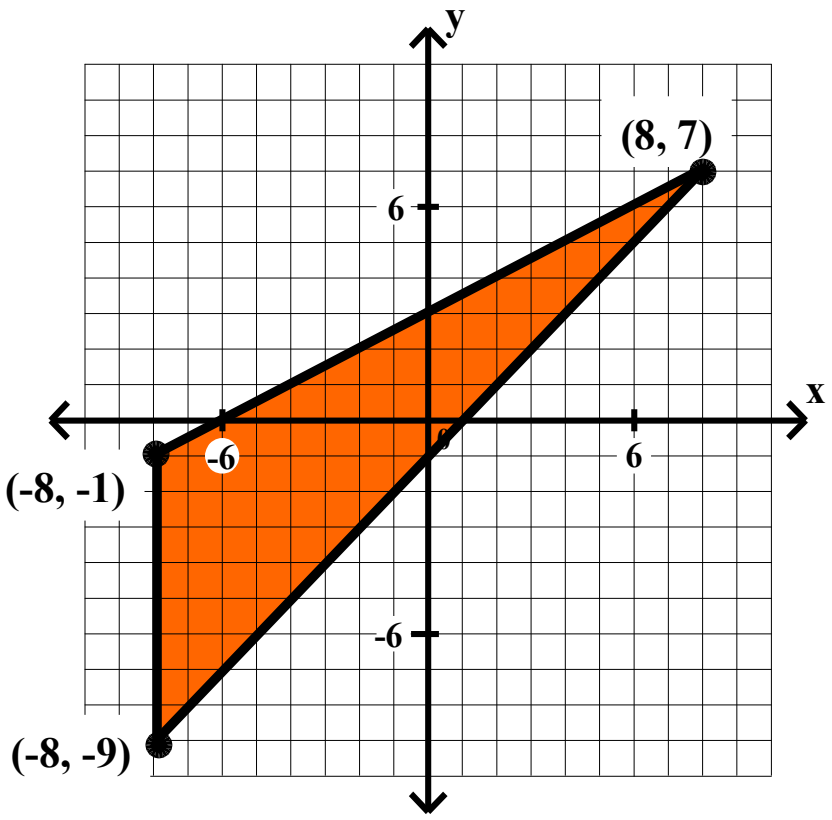
$x \geq -8$

$-2y \geq -x - 6$

$y \leq (1/2)x + 3$

$-y \leq -x + 1$

$y \geq x - 1$



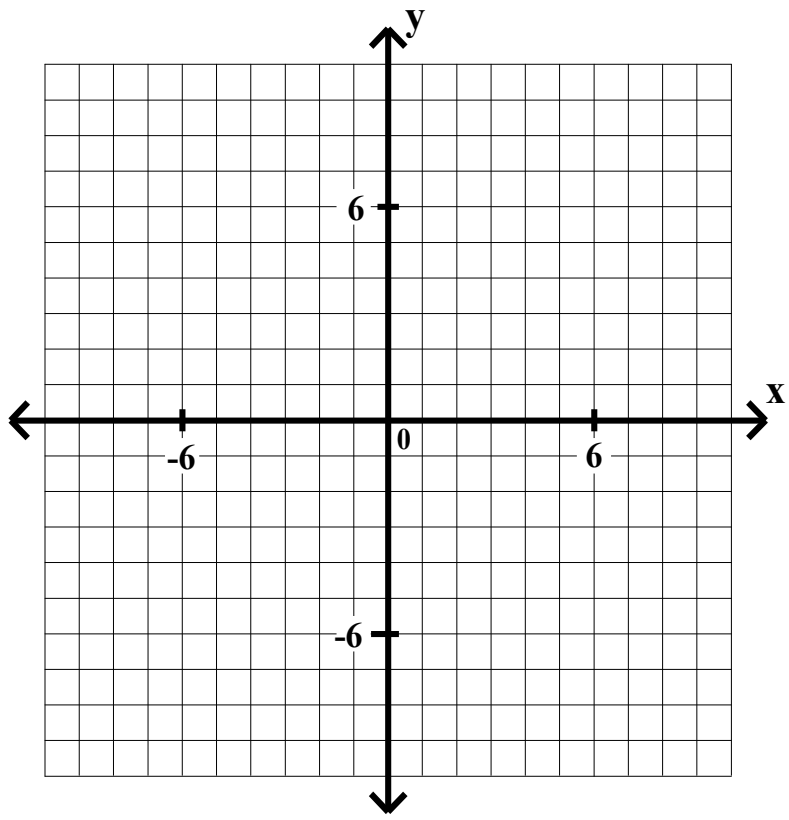
Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$
$6x + 5y \leq 25$

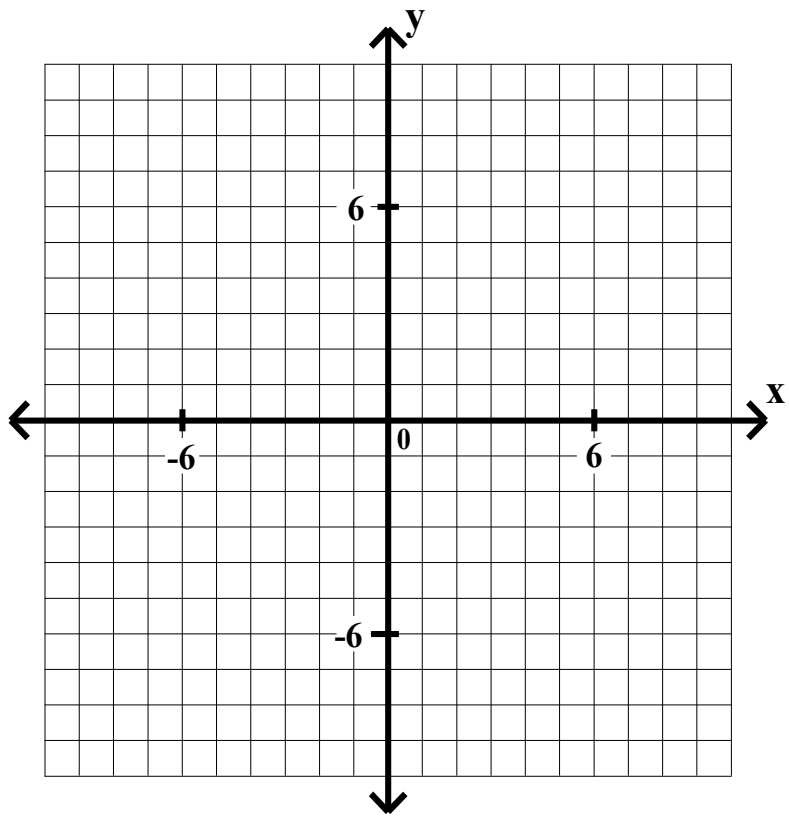


Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$
$6x + 5y \leq 25$

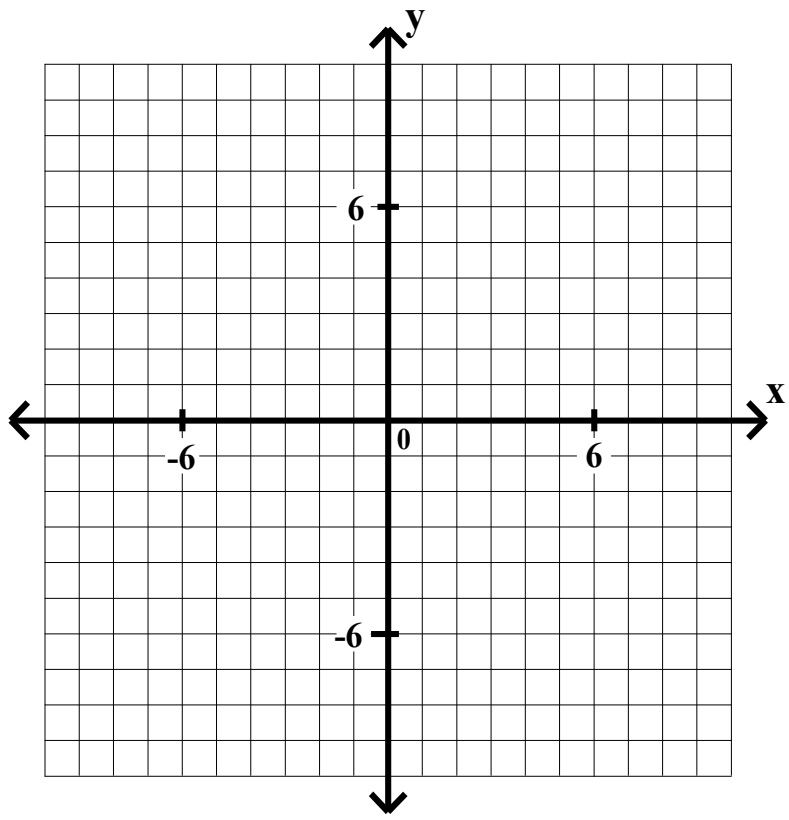


Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$
$6x + 5y \leq 25$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

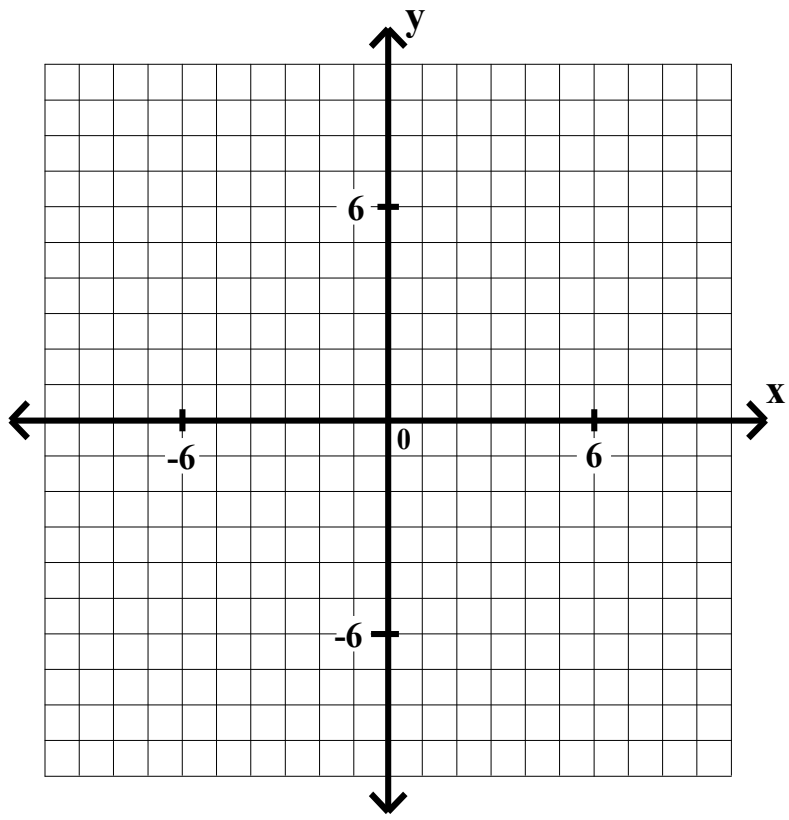
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

2. $x - y \leq 6$

$x + 3y \geq -6$

$-2x + y \leq 5$

$6x + 5y \leq 25$



Graph the intersection of the solution sets of all inequalities.

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.

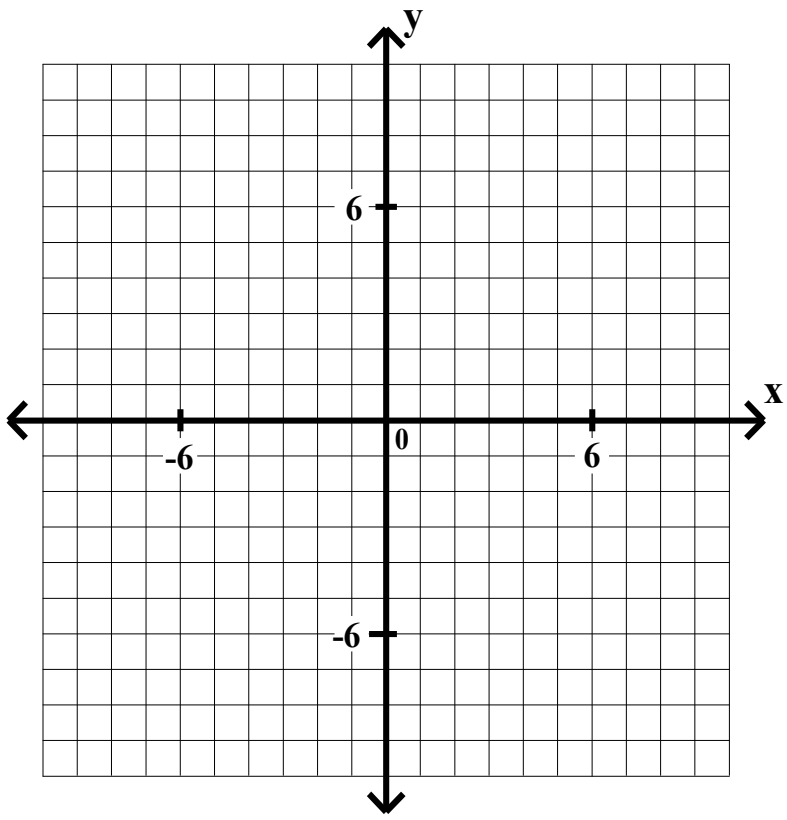
2. $x - y \leq 6$

$x + 3y \geq -6$

$-2x + y \leq 5$

$6x + 5y \leq 25$

-y



Graph the <u>intersection</u> of the solution sets of all inequalities.

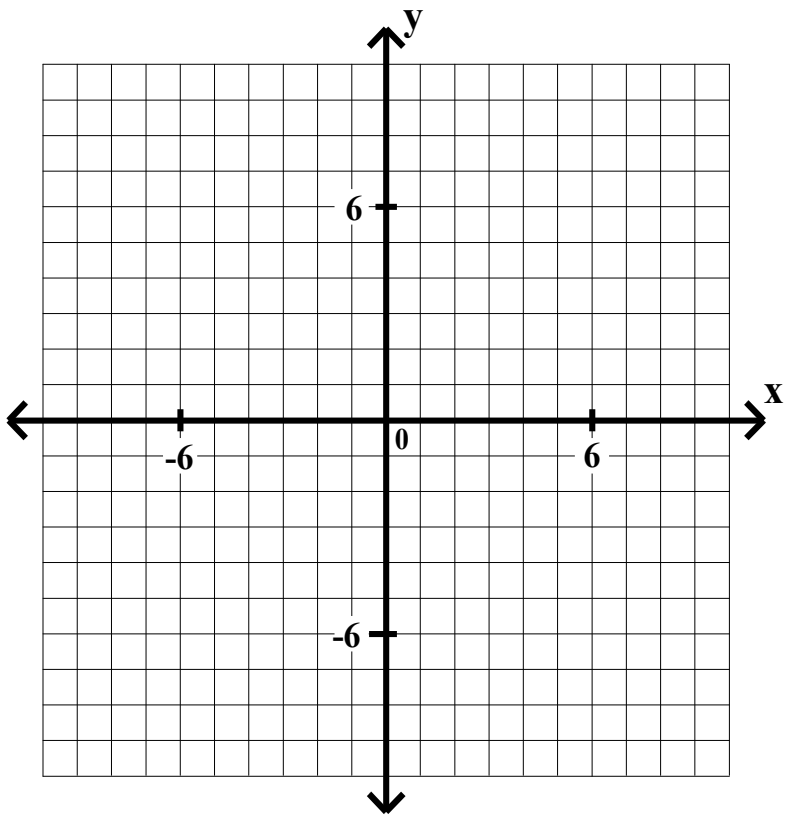
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$
$6x + 5y \leq 25$

$-y \leq$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

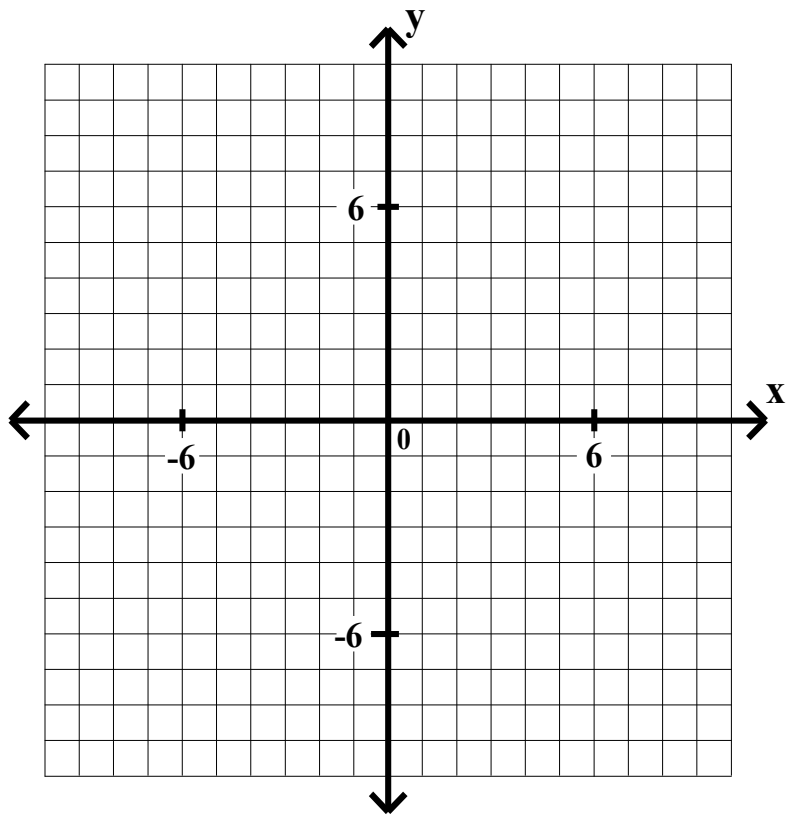
2. $x - y \leq 6$

$x + 3y \geq -6$

$-2x + y \leq 5$

$6x + 5y \leq 25$

$-y \leq -x$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

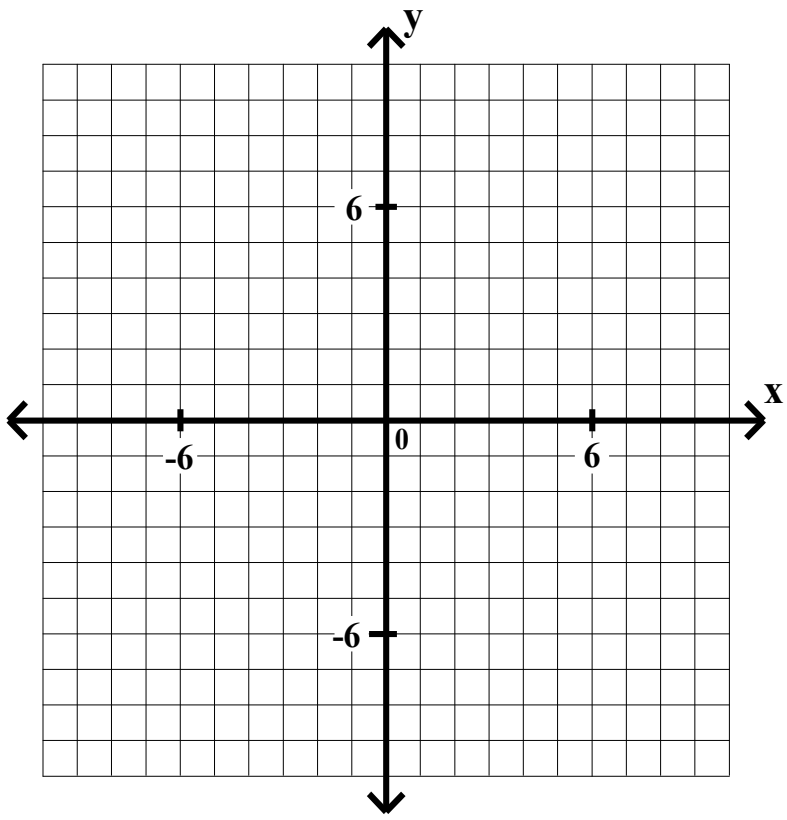
2. $x - y \leq 6$

$x + 3y \geq -6$

$-2x + y \leq 5$

$6x + 5y \leq 25$

$-y \leq -x +$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

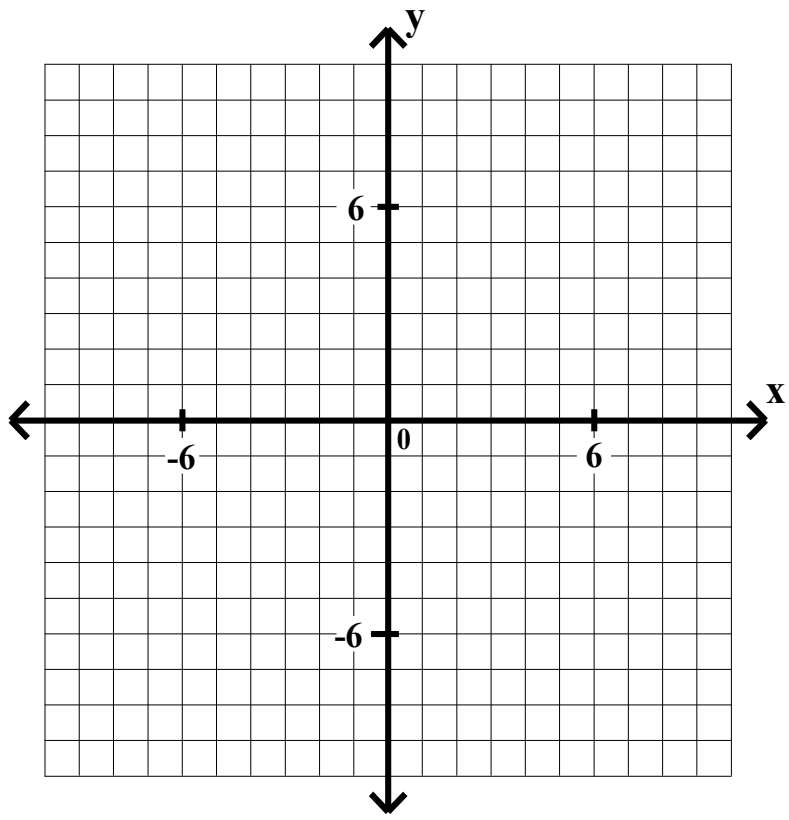
2. $x - y \leq 6$

$x + 3y \geq -6$

$-2x + y \leq 5$

$6x + 5y \leq 25$

$-y \leq -x + 6$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

2. $x - y \leq 6$

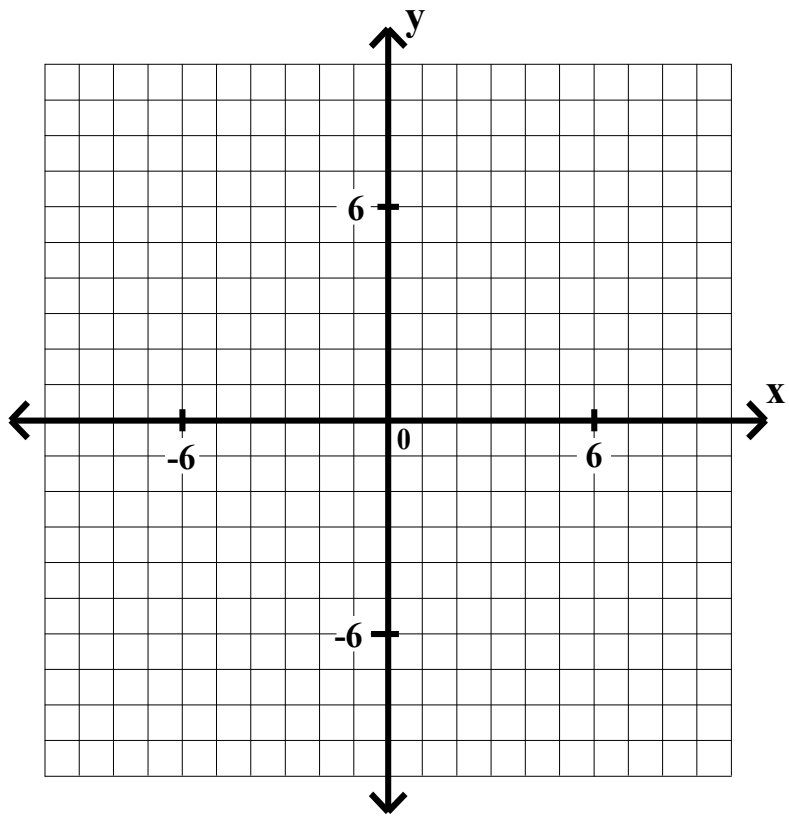
$x + 3y \geq -6$

$-2x + y \leq 5$

$6x + 5y \leq 25$

$-y \leq -x + 6$

y



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

2. $x - y \leq 6$

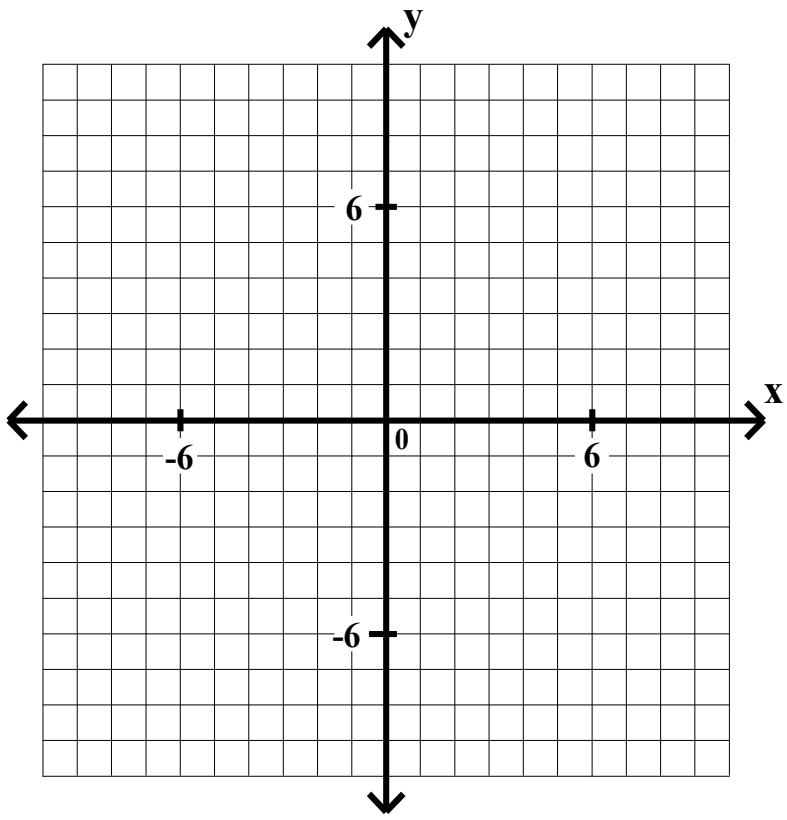
$x + 3y \geq -6$

$-2x + y \leq 5$

$6x + 5y \leq 25$

$-y \leq -x + 6$

$y \geq$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

2. $x - y \leq 6$

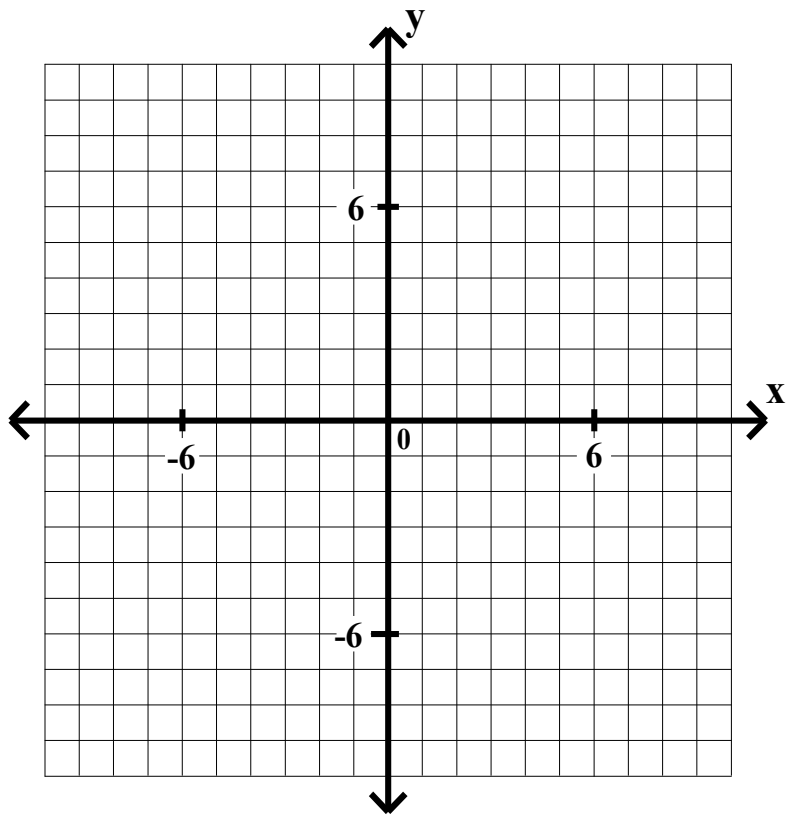
$x + 3y \geq -6$

$-2x + y \leq 5$

$6x + 5y \leq 25$

$-y \leq -x + 6$

$y \geq x$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

2. $x - y \leq 6$

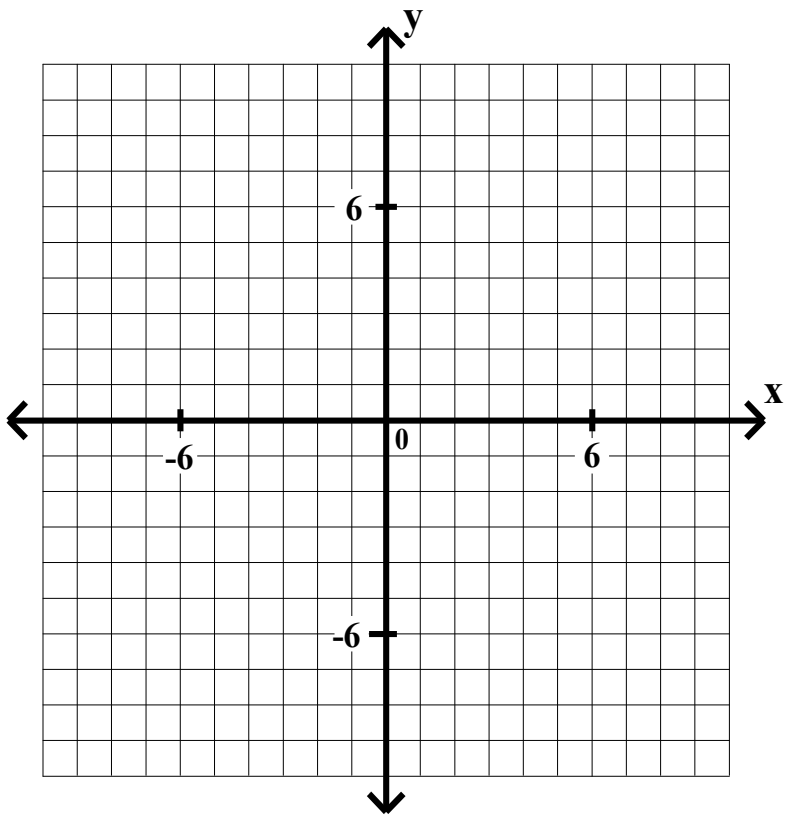
$x + 3y \geq -6$

$-2x + y \leq 5$

$6x + 5y \leq 25$

$-y \leq -x + 6$

$y \geq x -$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

2. $x - y \leq 6$

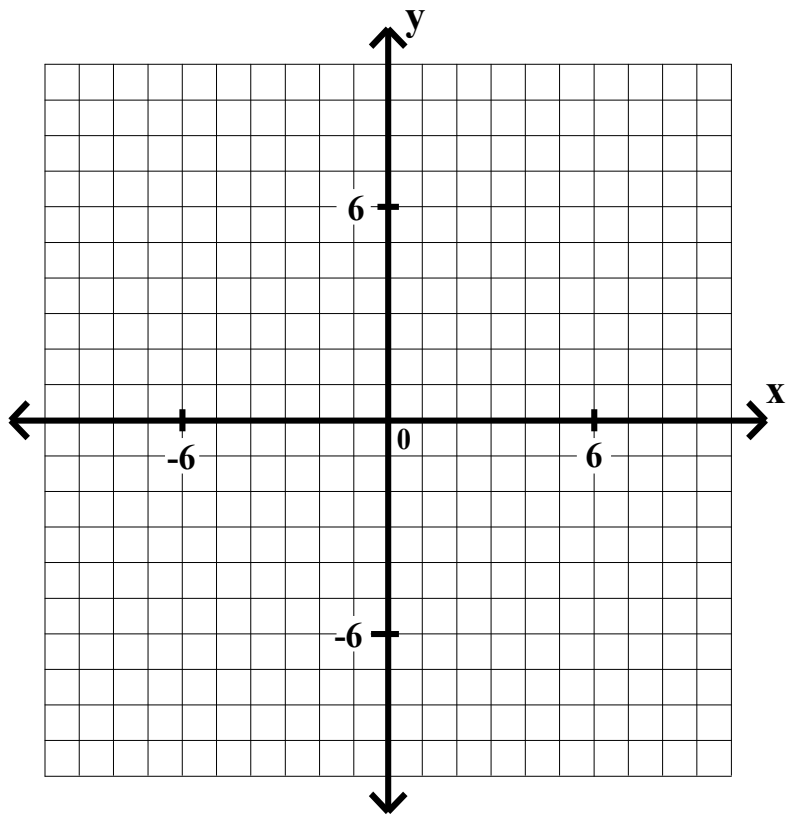
$x + 3y \geq -6$

$-2x + y \leq 5$

$6x + 5y \leq 25$

$-y \leq -x + 6$

$y \geq x - 6$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

2. $x - y \leq 6$

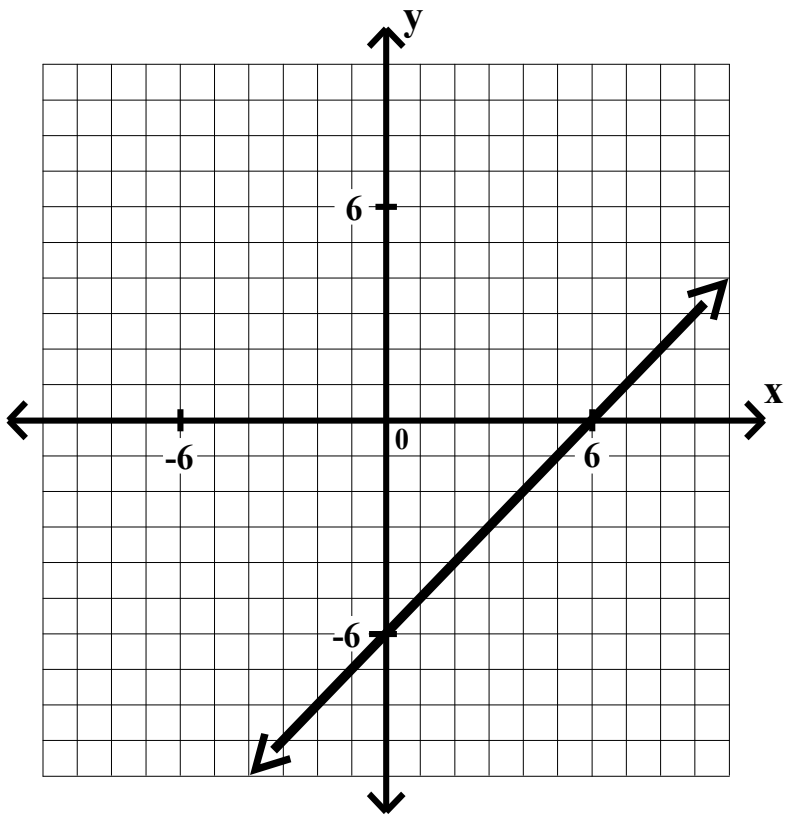
$x + 3y \geq -6$

$-2x + y \leq 5$

$6x + 5y \leq 25$

$-y \leq -x + 6$

$y \geq x - 6$



Graph the <u>intersection</u> of the solution sets of all inequalities.

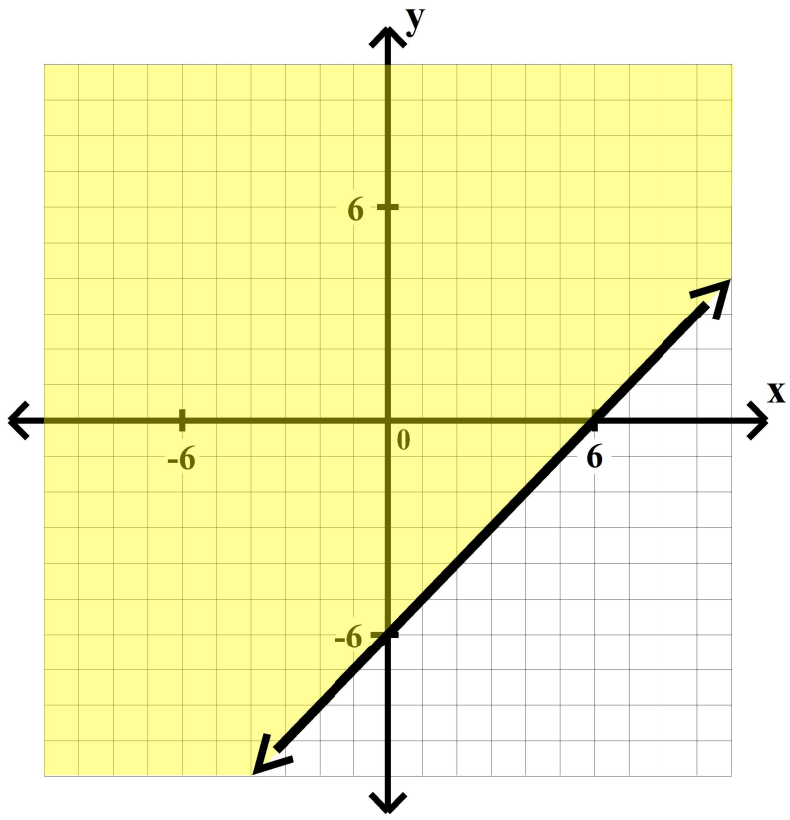
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$
$6x + 5y \leq 25$

$-y \leq -x + 6$
$y \geq x - 6$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

2. $x - y \leq 6$

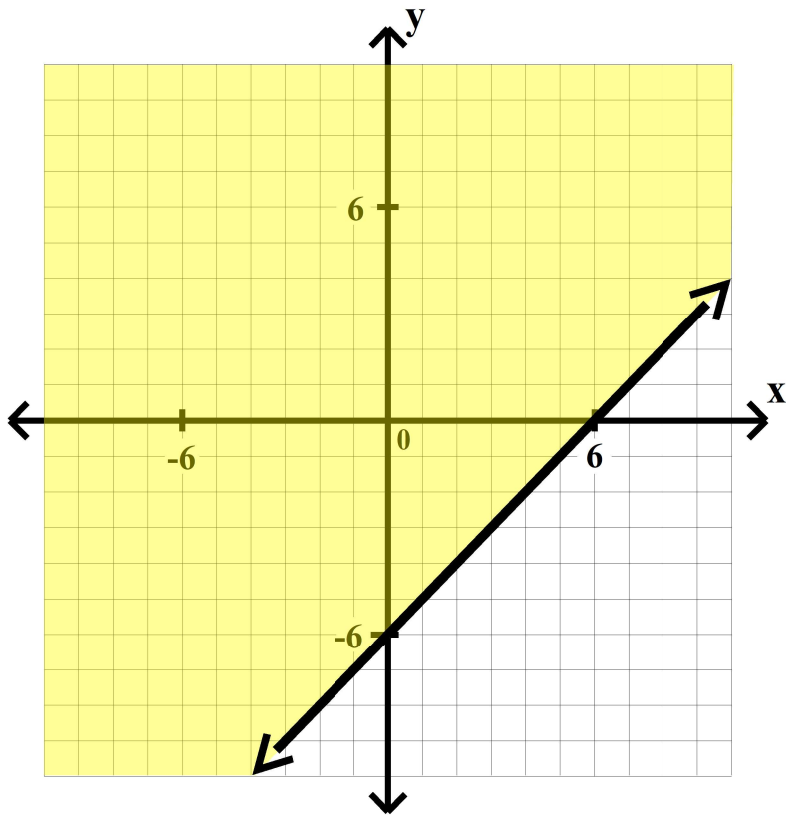
$x + 3y \geq -6$

$-2x + y \leq 5$

$6x + 5y \leq 25$

$-y \leq -x + 6$

$y \geq x - 6$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

2. $x - y \leq 6$

$x + 3y \geq -6$

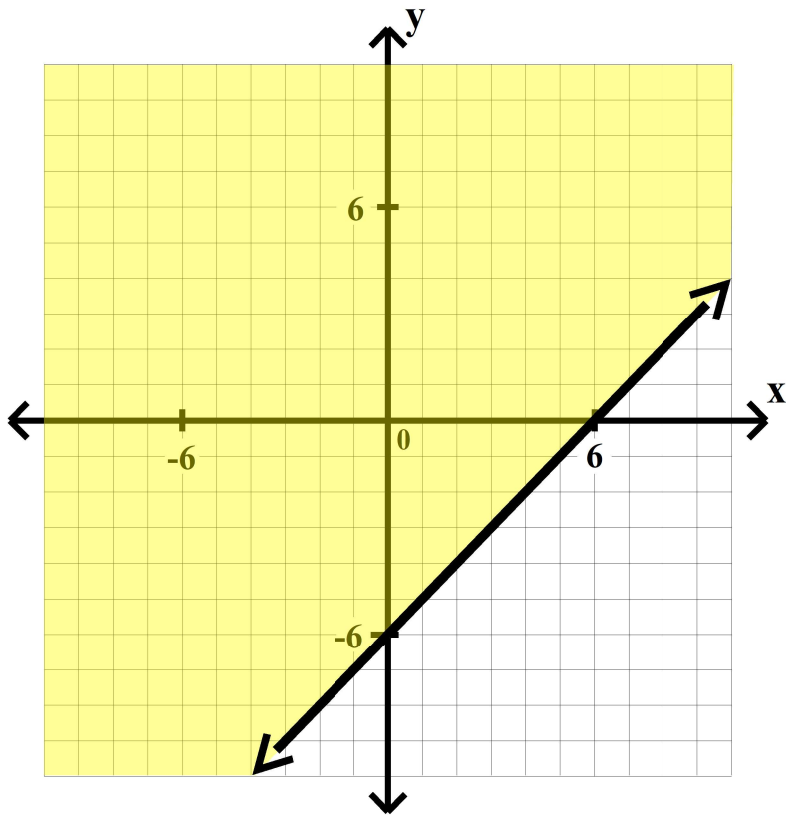
$-2x + y \leq 5$

$6x + 5y \leq 25$

$-y \leq -x + 6$

$y \geq x - 6$

3y



Graph the intersection of the solution sets of all inequalities.

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.

2. $x - y \leq 6$

$x + 3y \geq -6$

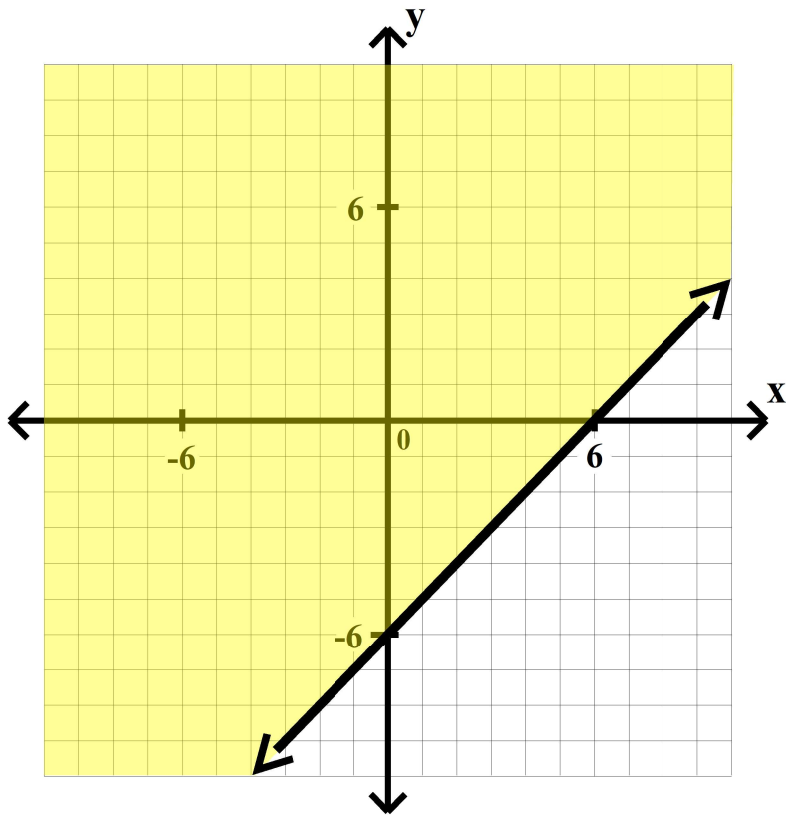
$-2x + y \leq 5$

$6x + 5y \leq 25$

$-y \leq -x + 6$

$y \geq x - 6$

$3y \geq$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

2. $x - y \leq 6$

$x + 3y \geq -6$

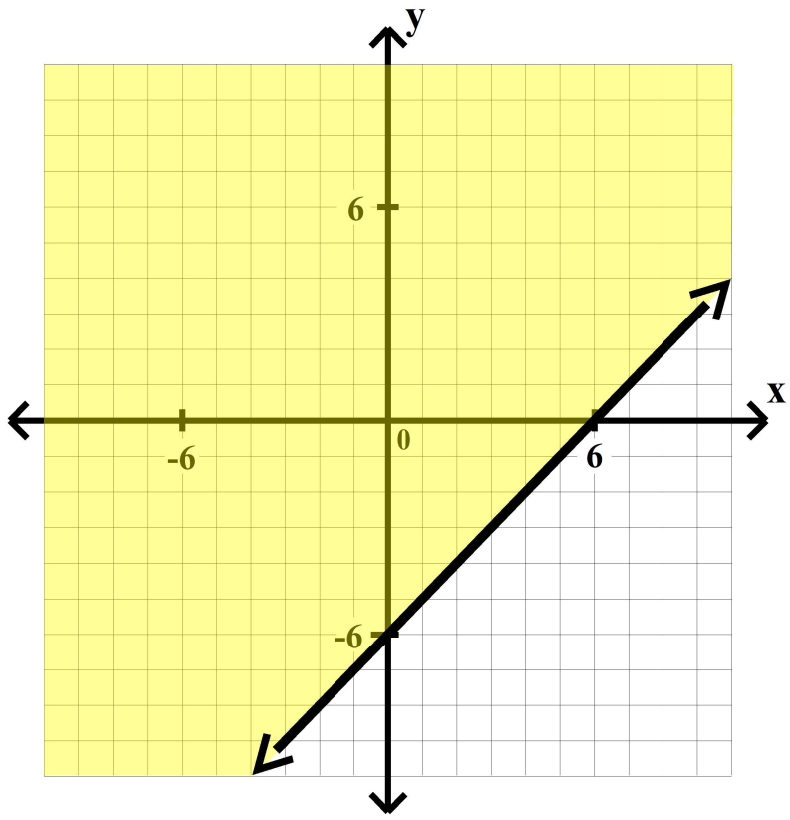
$-2x + y \leq 5$

$6x + 5y \leq 25$

$-y \leq -x + 6$

$y \geq x - 6$

$3y \geq -x$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

2. $x - y \leq 6$

$x + 3y \geq -6$

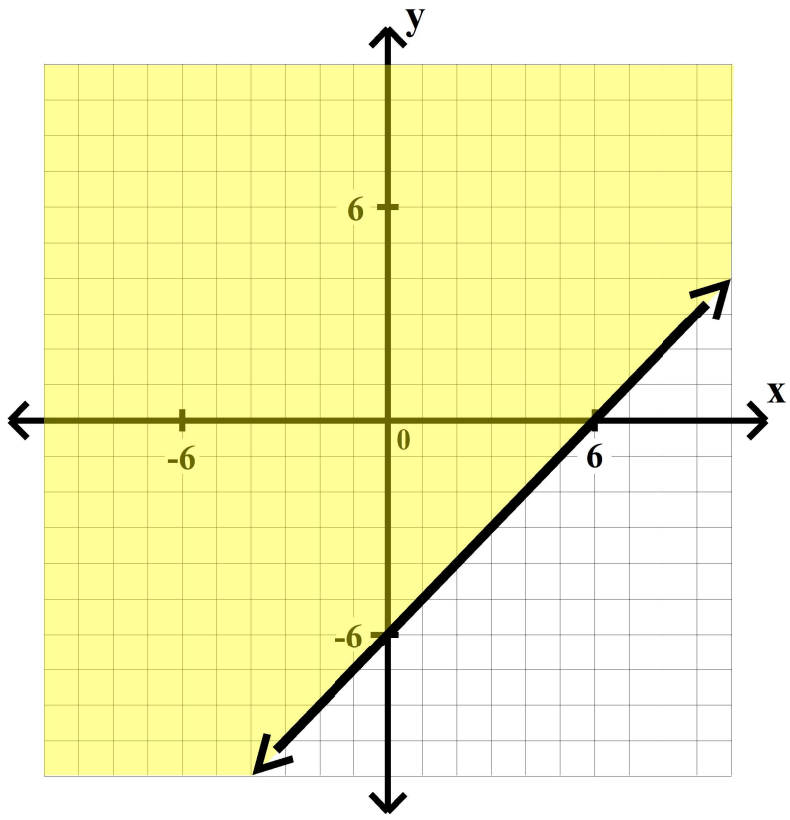
$-2x + y \leq 5$

$6x + 5y \leq 25$

$-y \leq -x + 6$

$y \geq x - 6$

$3y \geq -x -$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

2. $x - y \leq 6$

$x + 3y \geq -6$

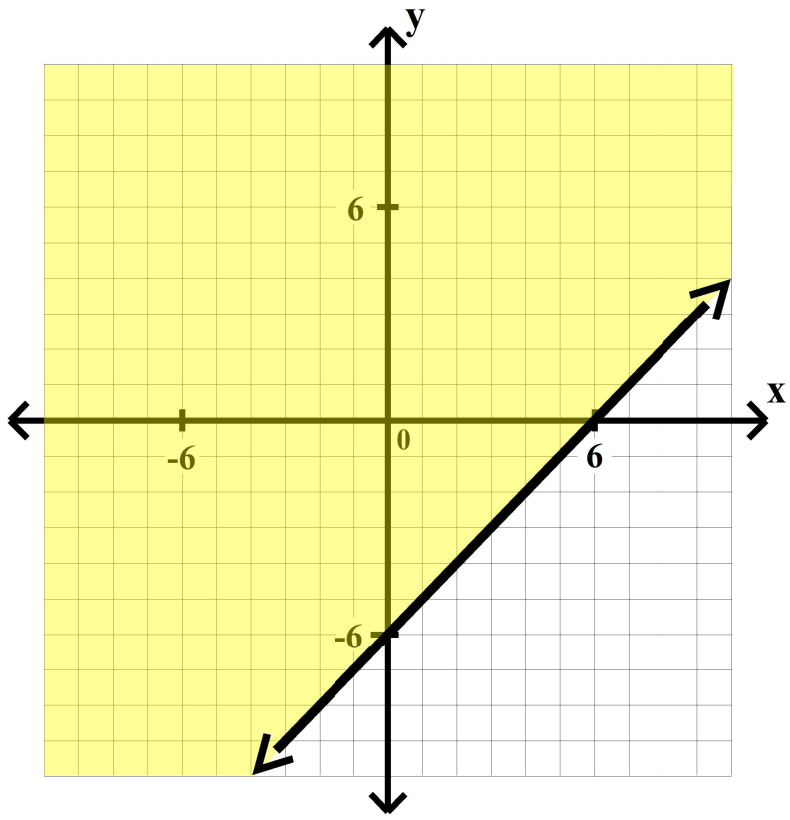
$-2x + y \leq 5$

$6x + 5y \leq 25$

$-y \leq -x + 6$

$y \geq x - 6$

$3y \geq -x - 6$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

2. $x - y \leq 6$

$x + 3y \geq -6$

$-2x + y \leq 5$

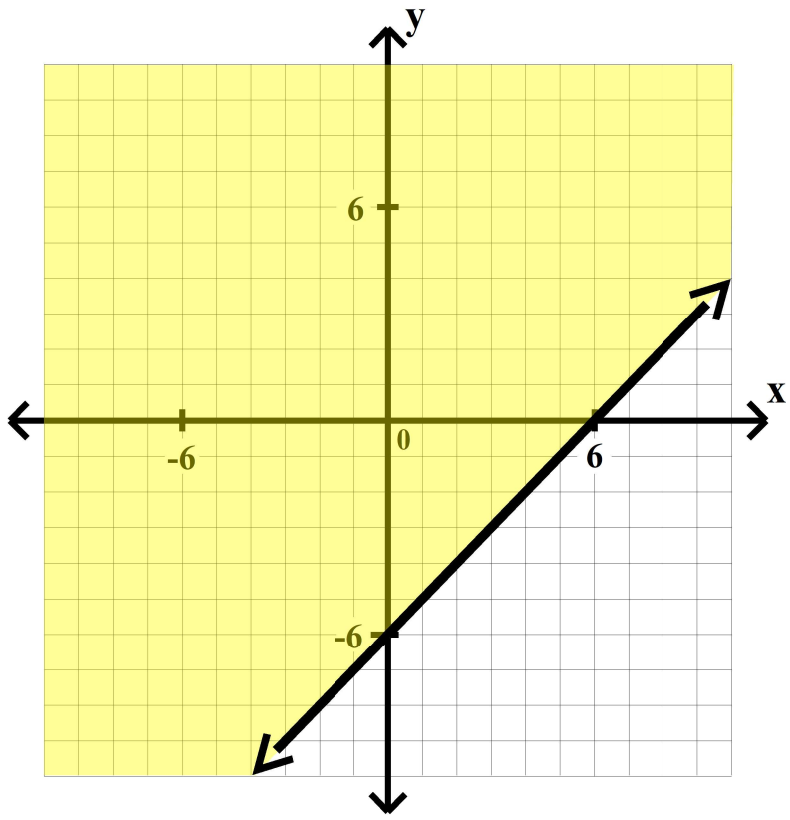
$6x + 5y \leq 25$

$-y \leq -x + 6$

$y \geq x - 6$

$3y \geq -x - 6$

y



Graph the intersection of the solution sets of all inequalities.

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.

2. $x - y \leq 6$

$x + 3y \geq -6$

$-2x + y \leq 5$

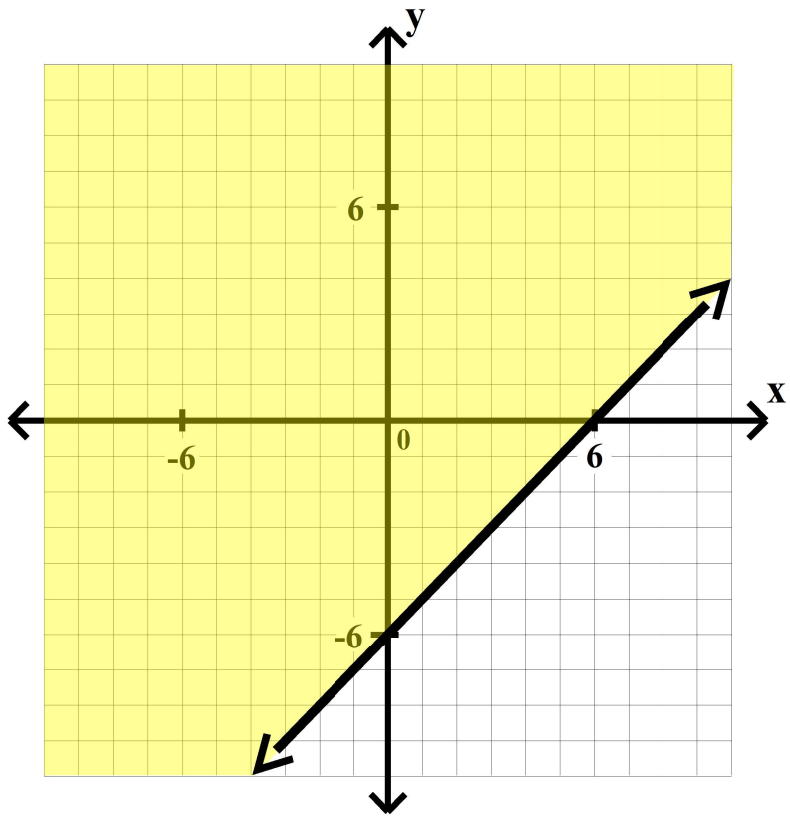
$6x + 5y \leq 25$

$-y \leq -x + 6$

$y \geq x - 6$

$3y \geq -x - 6$

$y \geq$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

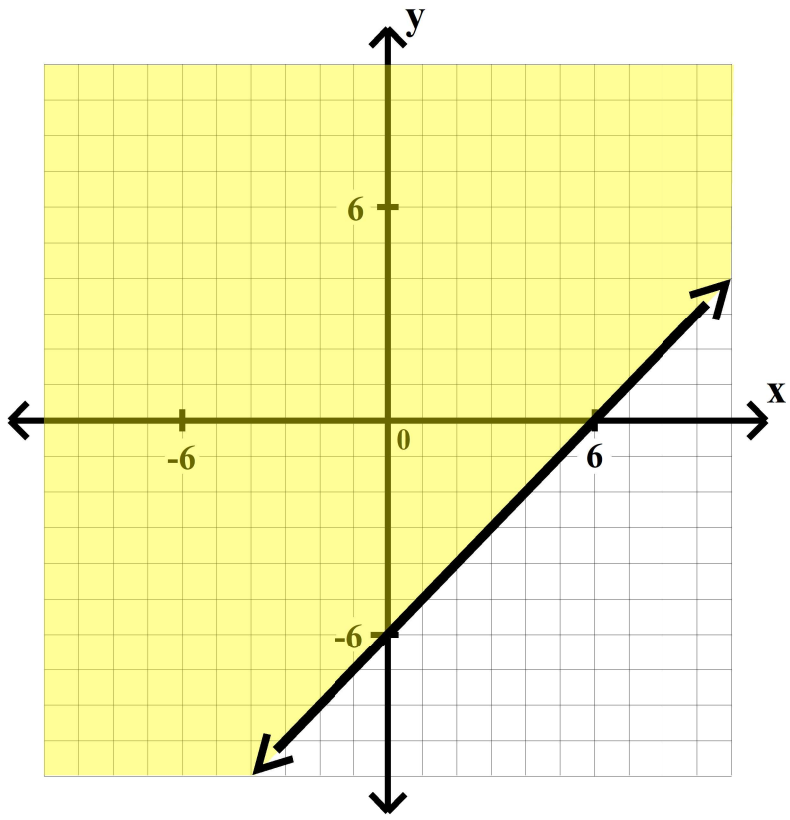
Systems of Linear Inequalities with Two Variables

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

2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$
$6x + 5y \leq 25$

$-y \leq -x + 6$
$y \geq x - 6$

$3y \geq -x - 6$
$y \geq (-1/3)x$



Graph the intersection of the solution sets of all inequalities.

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.

2. $x - y \leq 6$

$x + 3y \geq -6$

$-2x + y \leq 5$

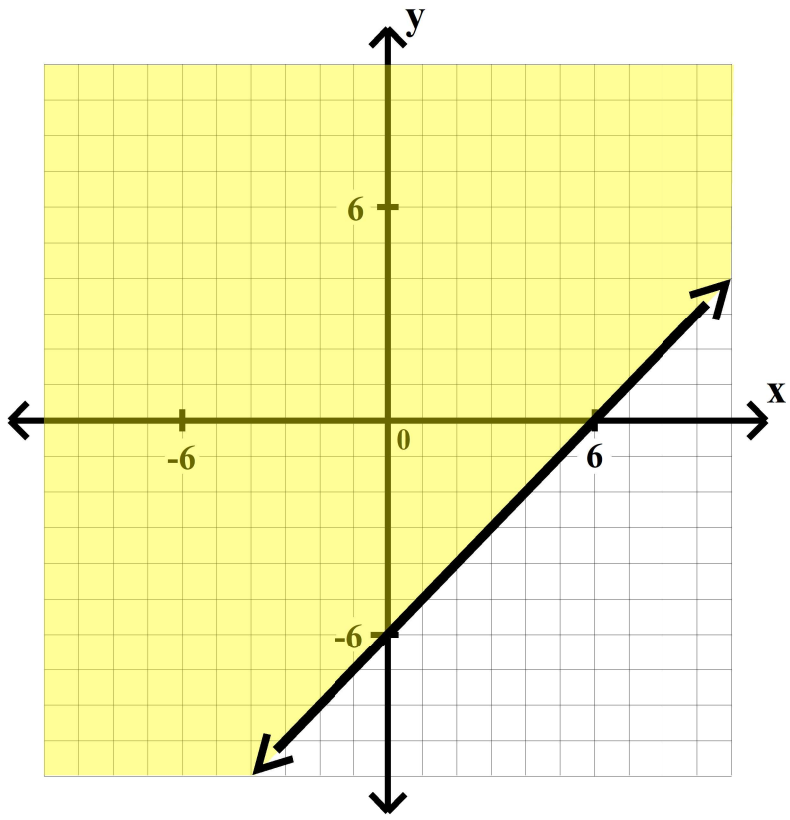
$6x + 5y \leq 25$

$-y \leq -x + 6$

$y \geq x - 6$

$3y \geq -x - 6$

$y \geq (-1/3)x -$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

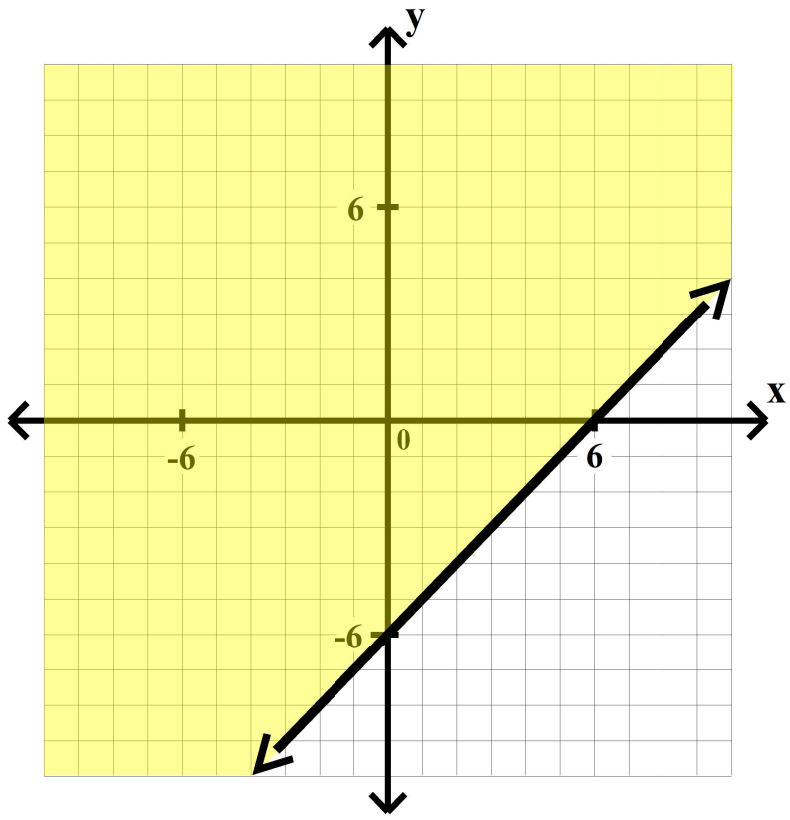
Systems of Linear Inequalities with Two Variables

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

2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$
$6x + 5y \leq 25$

$-y \leq -x + 6$
$y \geq x - 6$

$3y \geq -x - 6$
$y \geq (-1/3)x - 2$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

2. $x - y \leq 6$

$x + 3y \geq -6$

$-2x + y \leq 5$

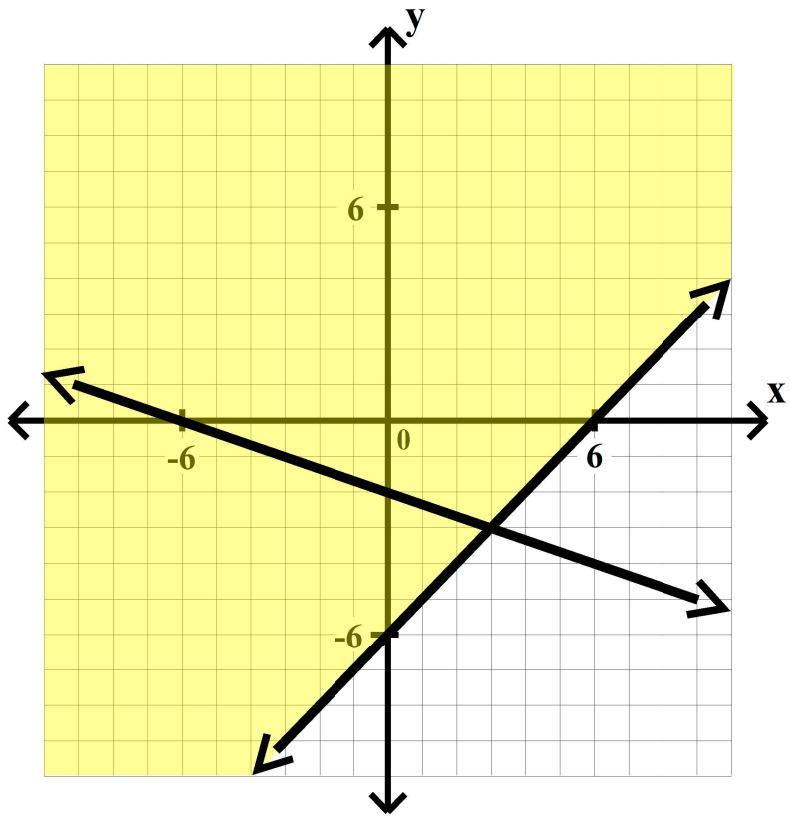
$6x + 5y \leq 25$

$-y \leq -x + 6$

$y \geq x - 6$

$3y \geq -x - 6$

$y \geq (-1/3)x - 2$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

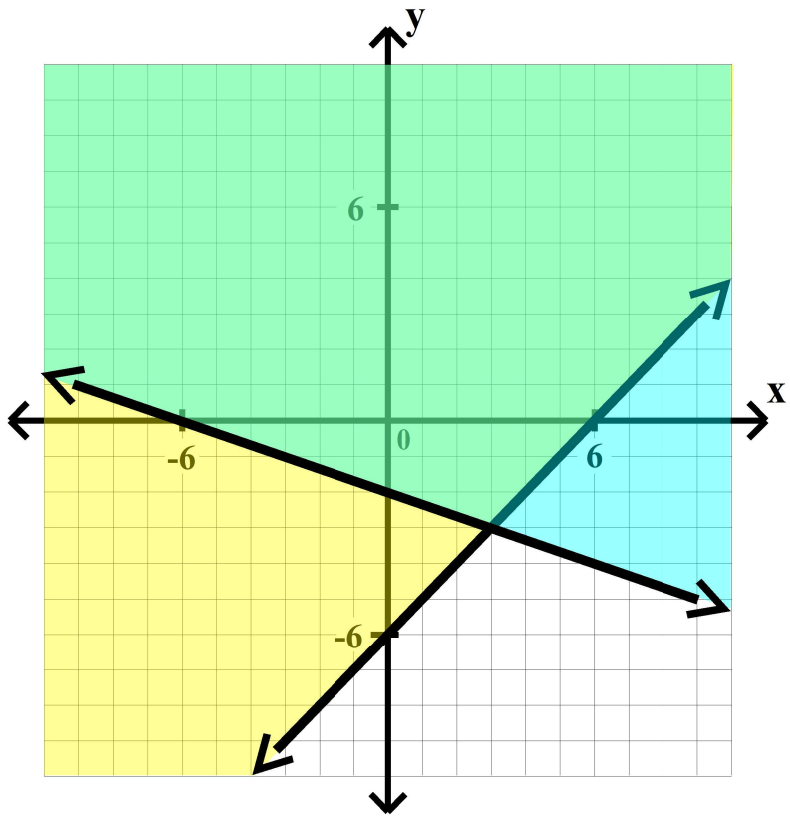
Systems of Linear Inequalities with Two Variables

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

2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$
$6x + 5y \leq 25$

$-y \leq -x + 6$
$y \geq x - 6$

$3y \geq -x - 6$
$y \geq (-1/3)x - 2$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

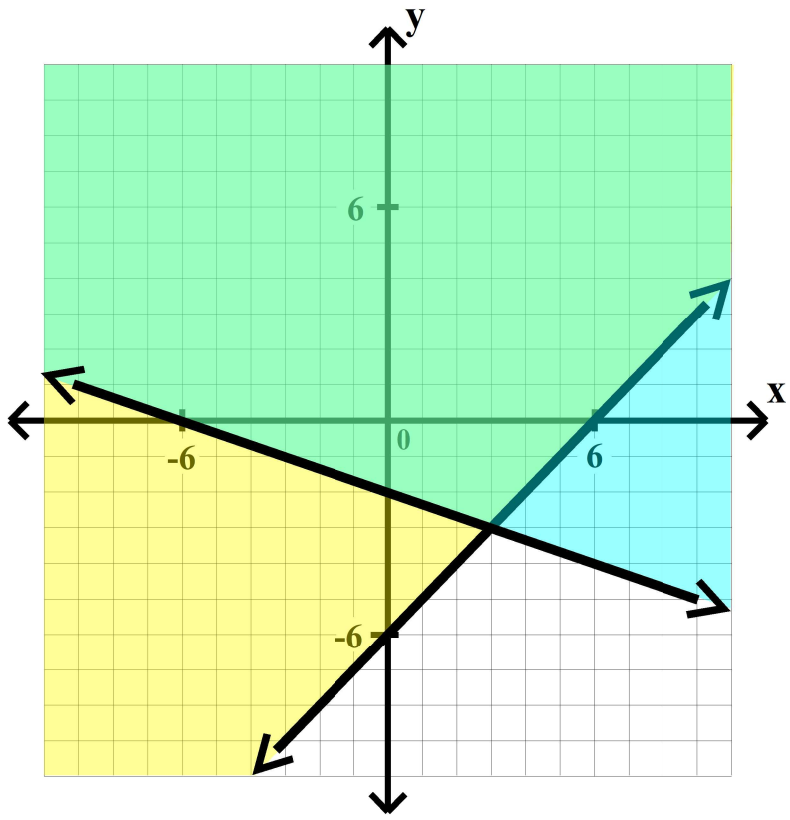
Systems of Linear Inequalities with Two Variables

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

2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$
$6x + 5y \leq 25$

$-y \leq -x + 6$
$y \geq x - 6$

$3y \geq -x - 6$
$y \geq (-1/3)x - 2$



Graph the intersection of the solution sets of all inequalities.

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.

2. $x - y \leq 6$

$x + 3y \geq -6$

$-2x + y \leq 5$

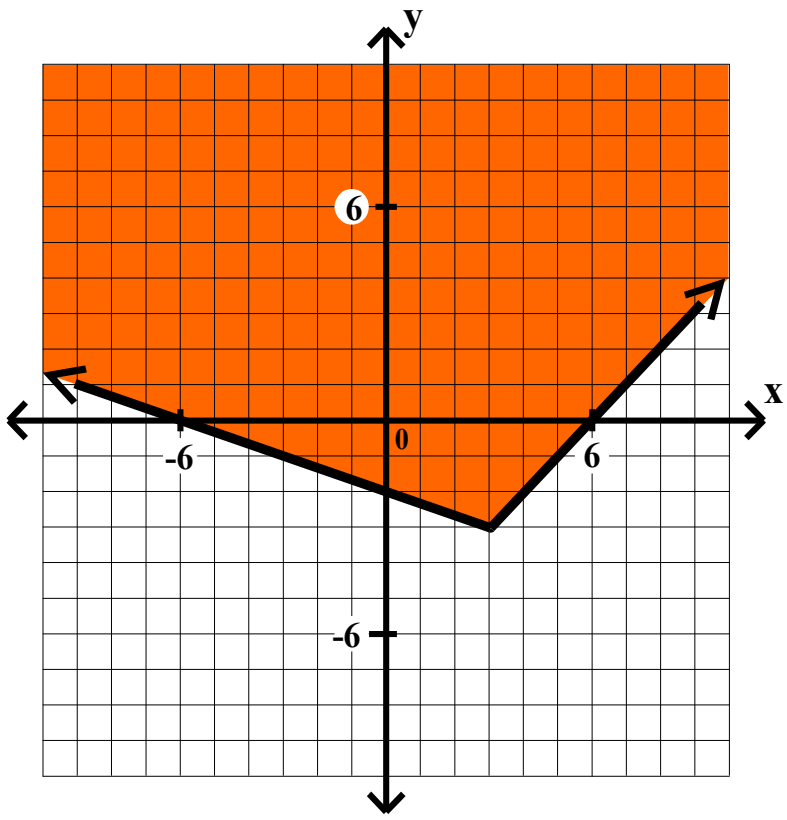
$6x + 5y \leq 25$

$-y \leq -x + 6$

$y \geq x - 6$

$3y \geq -x - 6$

$y \geq (-1/3)x - 2$



Graph the intersection of the solution sets of all inequalities.

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.

2. $x - y \leq 6$

$x + 3y \geq -6$

$-2x + y \leq 5$

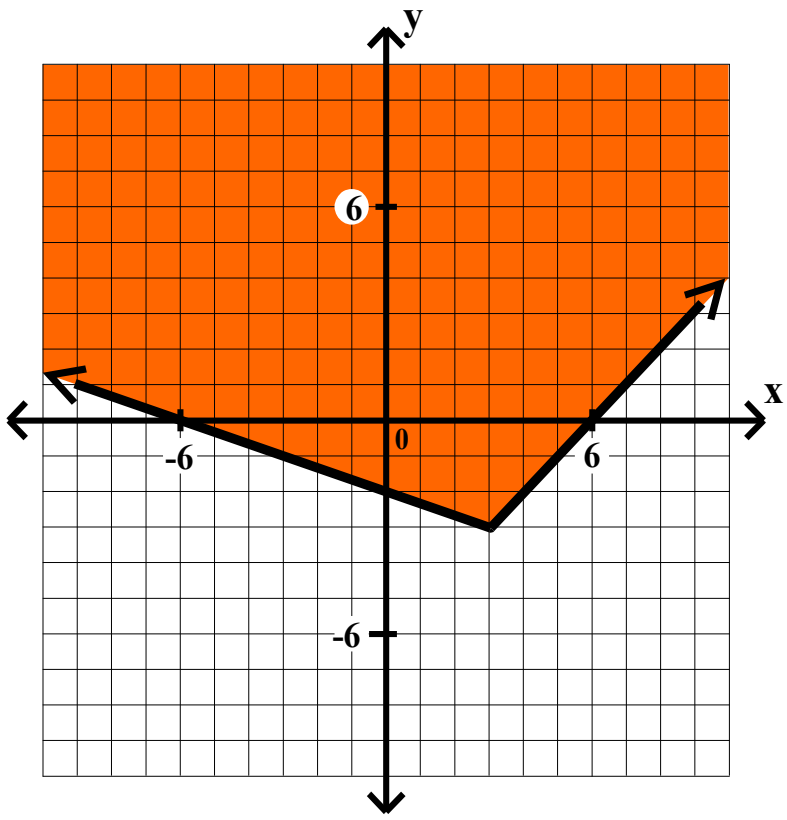
$6x + 5y \leq 25$

$-y \leq -x + 6$

$y \geq x - 6$

$3y \geq -x - 6$

$y \geq (-1/3)x - 2$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

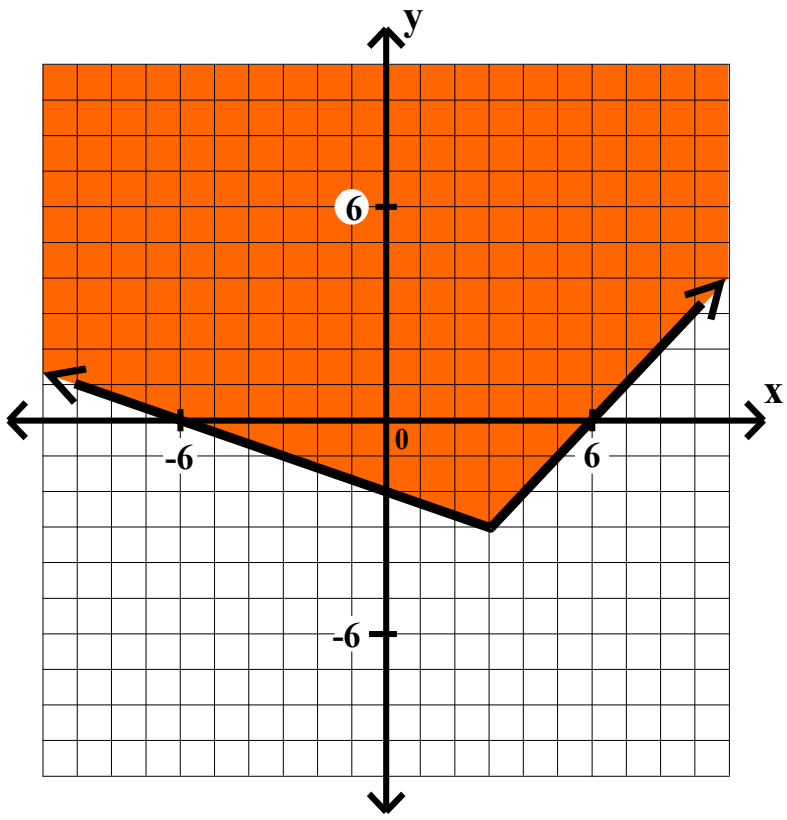
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$
$6x + 5y \leq 25$

$-y \leq -x + 6$
$y \geq x - 6$

$3y \geq -x - 6$
$y \geq (-1/3)x - 2$

y



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

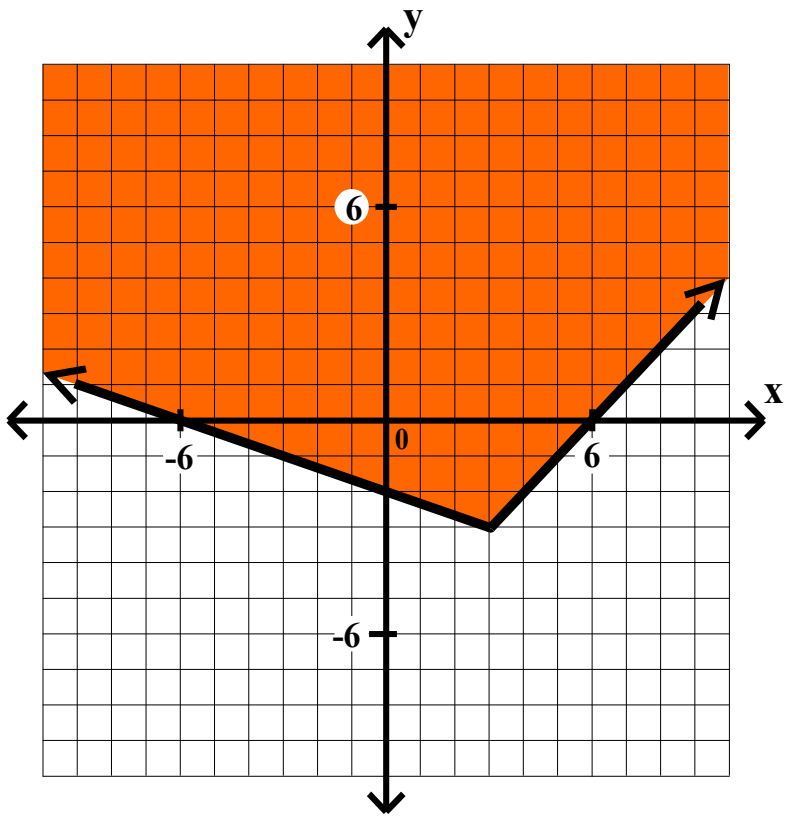
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$
$6x + 5y \leq 25$

$-y \leq -x + 6$
$y \geq x - 6$

$3y \geq -x - 6$
$y \geq (-1/3)x - 2$

$y \leq$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

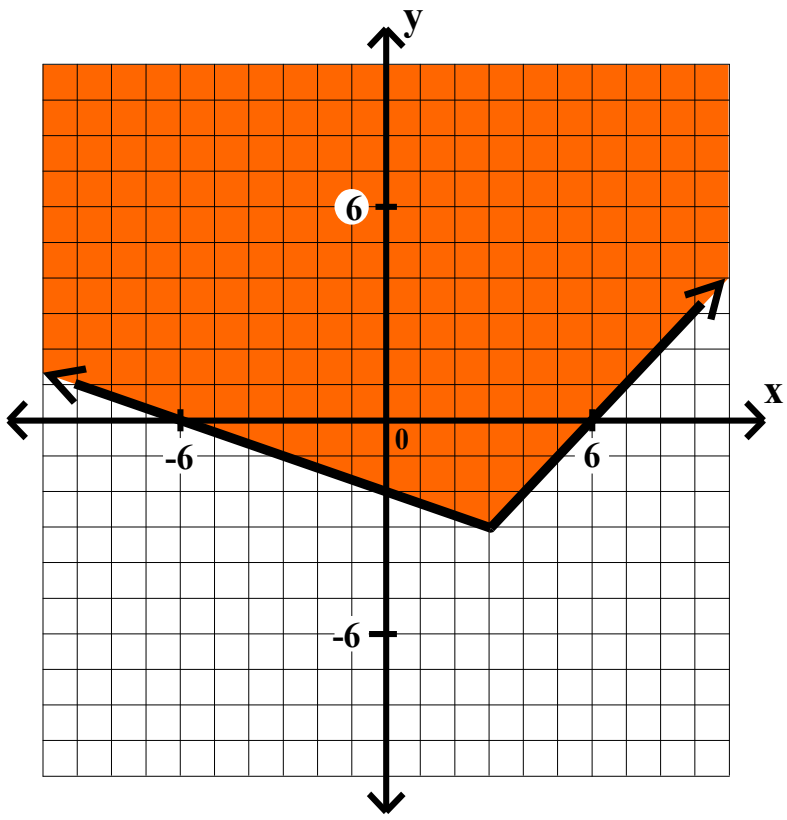
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$
$6x + 5y \leq 25$

$-y \leq -x + 6$
$y \geq x - 6$

$3y \geq -x - 6$
$y \geq (-1/3)x - 2$

$y \leq 2x$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

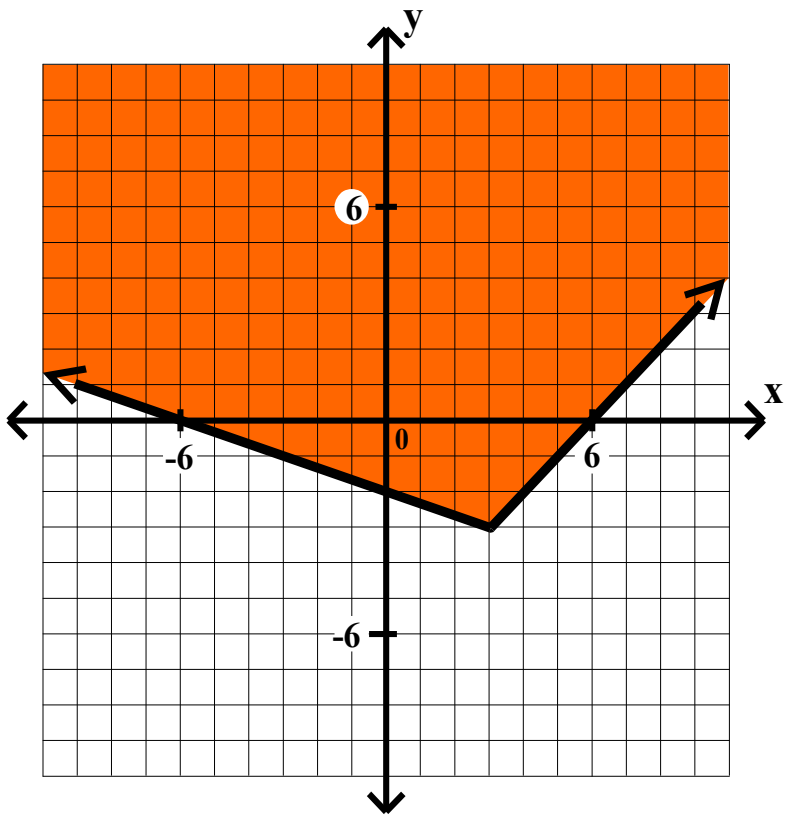
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$
$6x + 5y \leq 25$

$-y \leq -x + 6$
$y \geq x - 6$

$3y \geq -x - 6$
$y \geq (-1/3)x - 2$

$y \leq 2x +$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

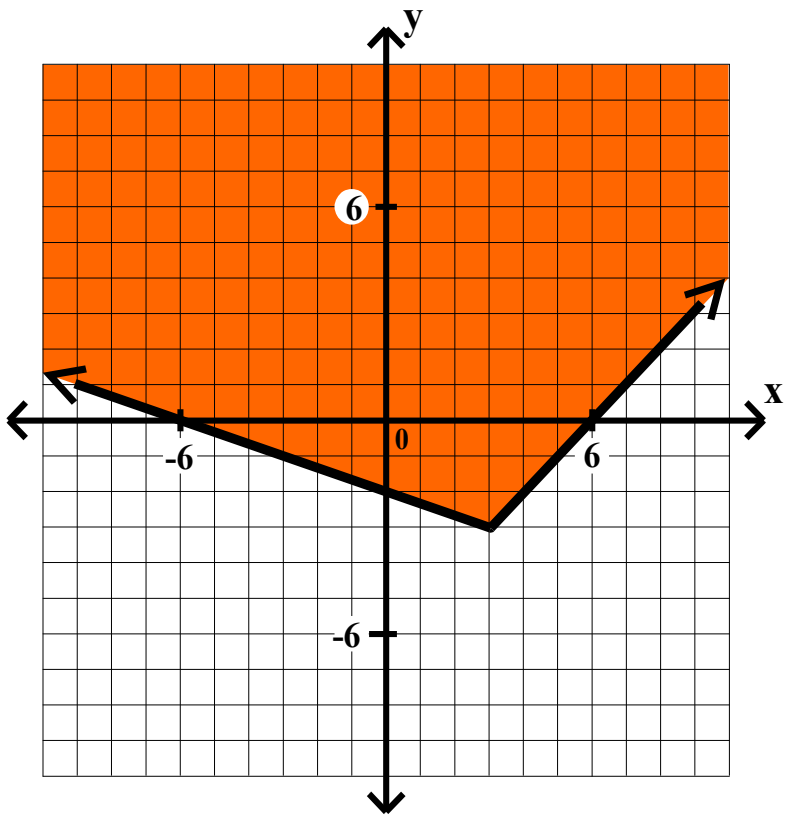
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$
$6x + 5y \leq 25$

$-y \leq -x + 6$
$y \geq x - 6$

$3y \geq -x - 6$
$y \geq (-1/3)x - 2$

$y \leq 2x + 5$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

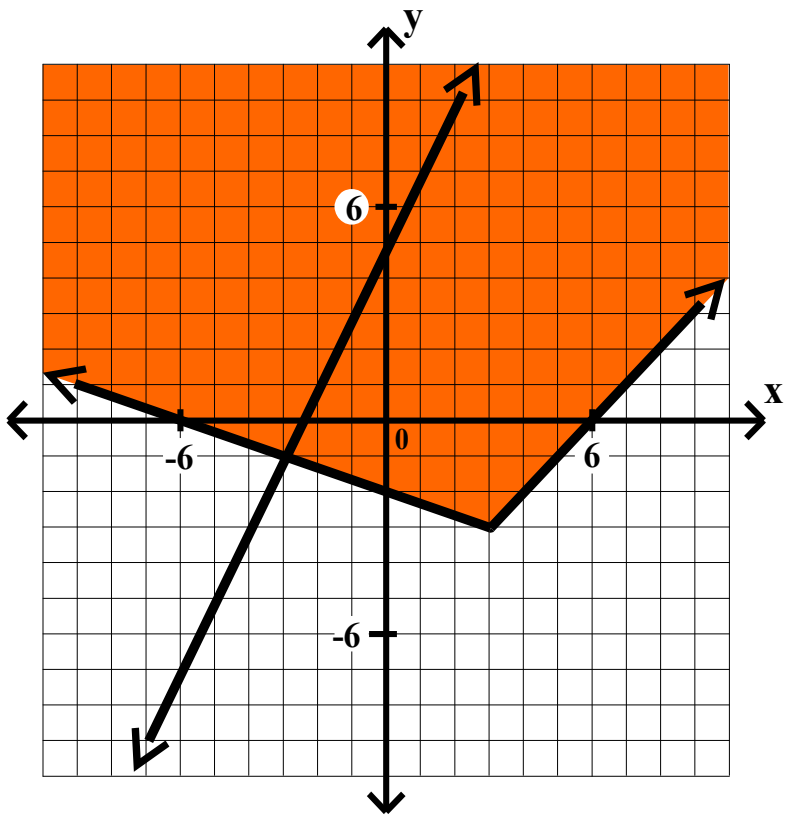
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$
$6x + 5y \leq 25$

$-y \leq -x + 6$
$y \geq x - 6$

$3y \geq -x - 6$
$y \geq (-1/3)x - 2$

$y \leq 2x + 5$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

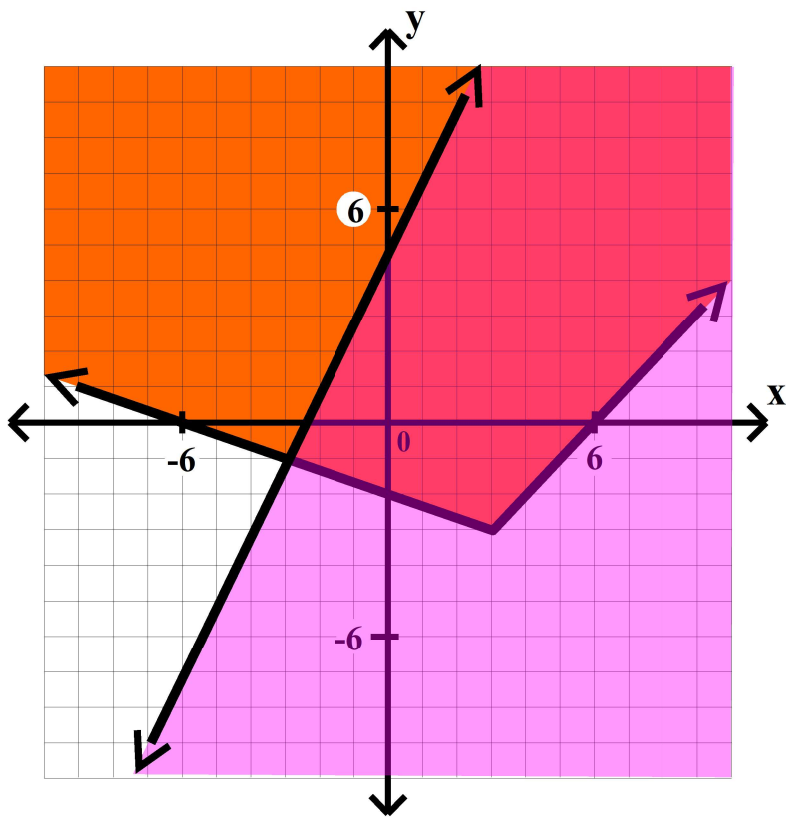
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$
$6x + 5y \leq 25$

$-y \leq -x + 6$
$y \geq x - 6$

$3y \geq -x - 6$
$y \geq (-1/3)x - 2$

$y \leq 2x + 5$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

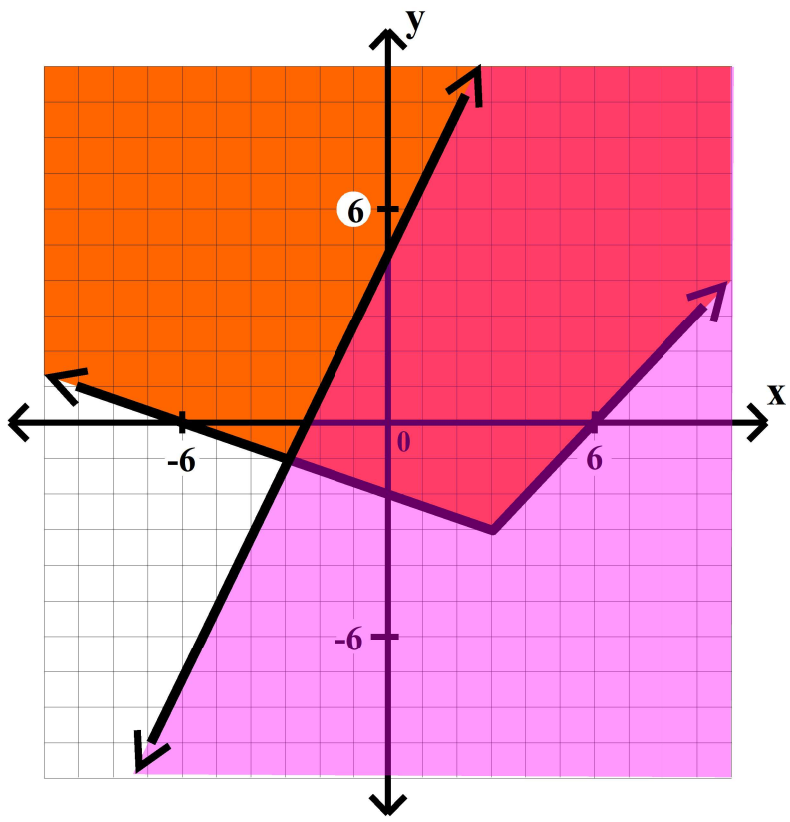
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$
$6x + 5y \leq 25$

$-y \leq -x + 6$
$y \geq x - 6$

$3y \geq -x - 6$
$y \geq (-1/3)x - 2$

$y \leq 2x + 5$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

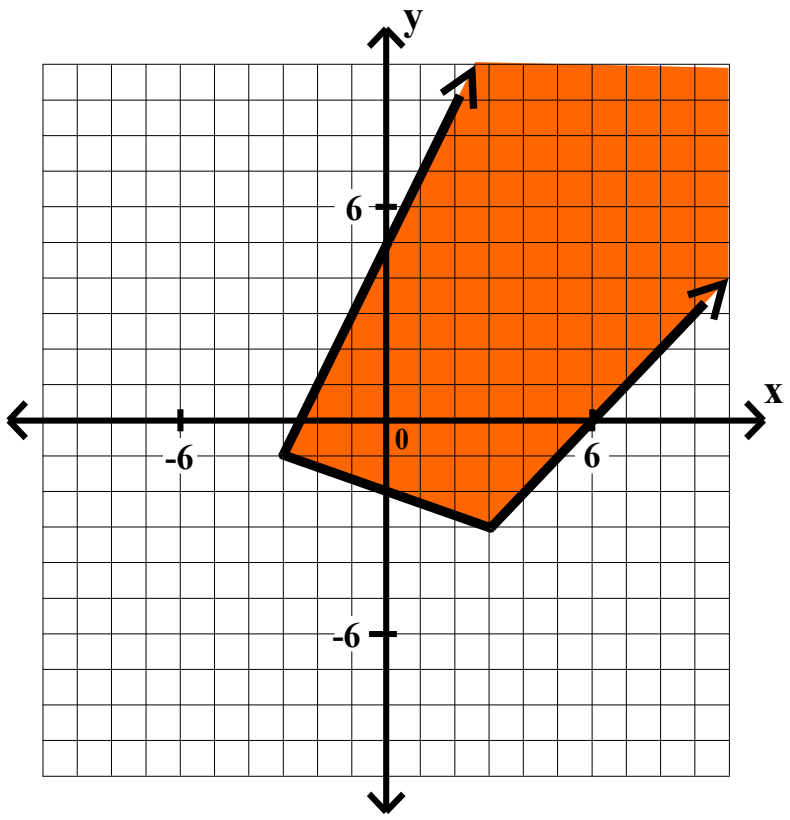
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$
$6x + 5y \leq 25$

$-y \leq -x + 6$
$y \geq x - 6$

$3y \geq -x - 6$
$y \geq (-1/3)x - 2$

$y \leq 2x + 5$



Graph the intersection of the solution sets of all inequalities.

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.

2. $x - y \leq 6$

$x + 3y \geq -6$

$-2x + y \leq 5$

$6x + 5y \leq 25$

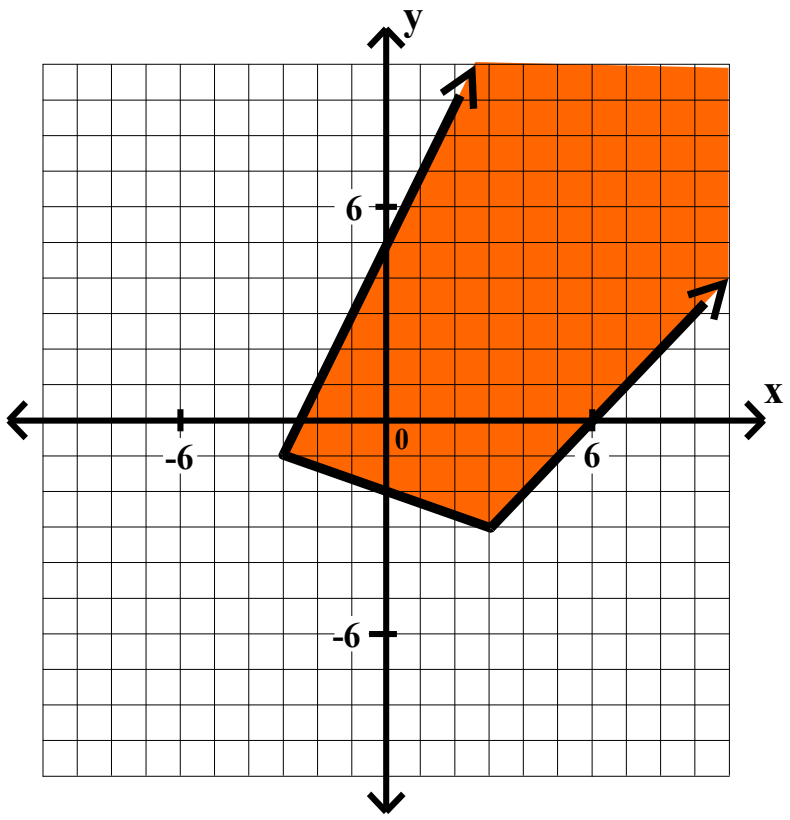
$-y \leq -x + 6$

$y \geq x - 6$

$3y \geq -x - 6$

$y \geq (-1/3)x - 2$

$y \leq 2x + 5$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

2. $x - y \leq 6$

$x + 3y \geq -6$

$-2x + y \leq 5$

$6x + 5y \leq 25$

$5y$

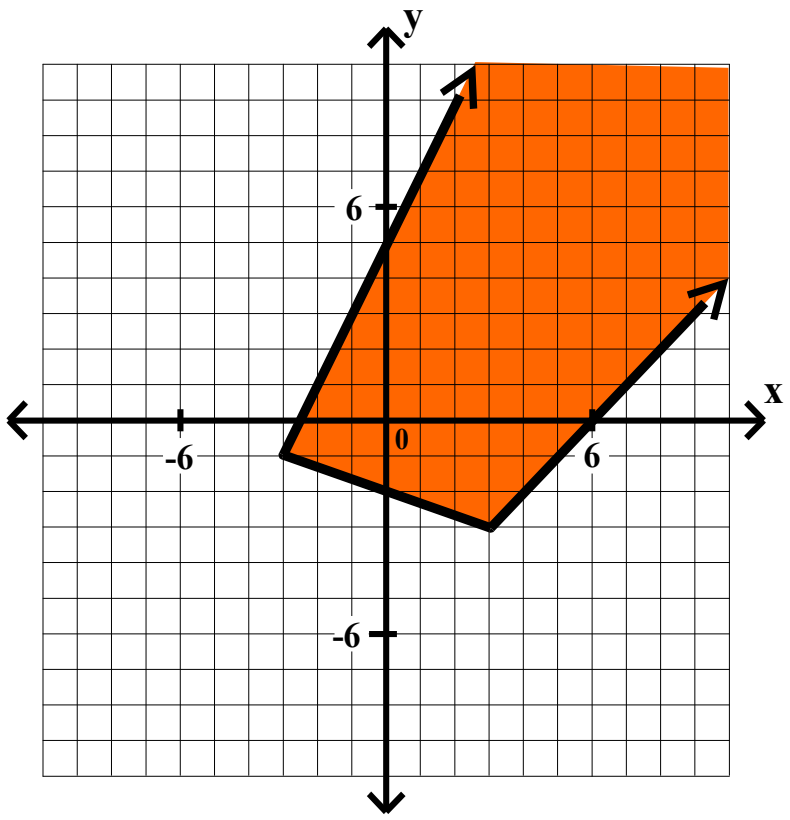
$-y \leq -x + 6$

$y \geq x - 6$

$3y \geq -x - 6$

$y \geq (-1/3)x - 2$

$y \leq 2x + 5$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

2. $x - y \leq 6$

$x + 3y \geq -6$

$-2x + y \leq 5$

$6x + 5y \leq 25$

$5y \leq$

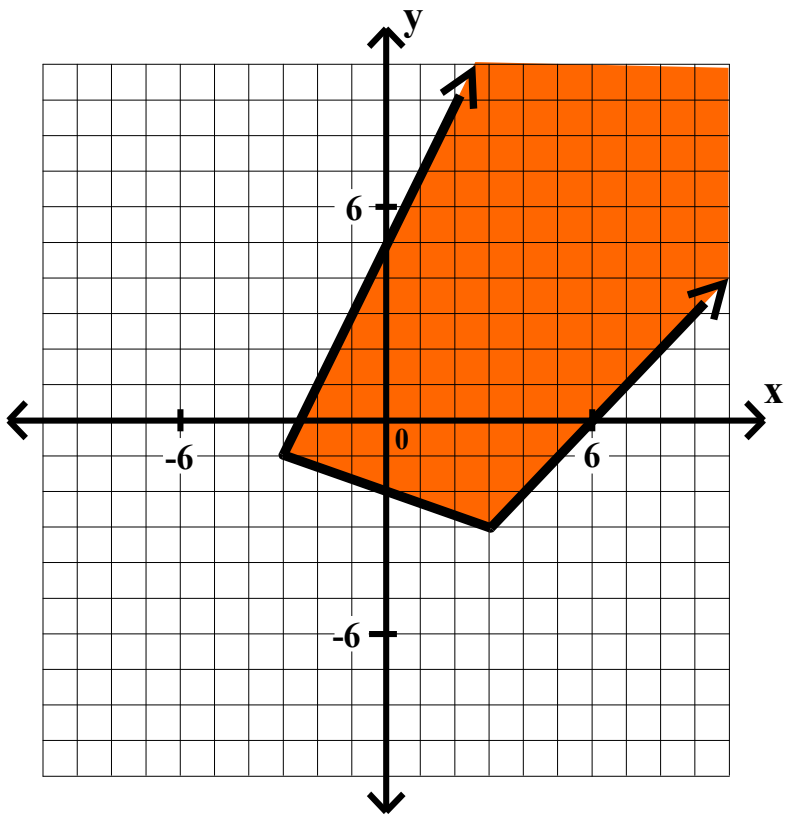
$-y \leq -x + 6$

$y \geq x - 6$

$3y \geq -x - 6$

$y \geq (-1/3)x - 2$

$y \leq 2x + 5$



Graph the <u>intersection</u> of the solution sets of all inequalities.

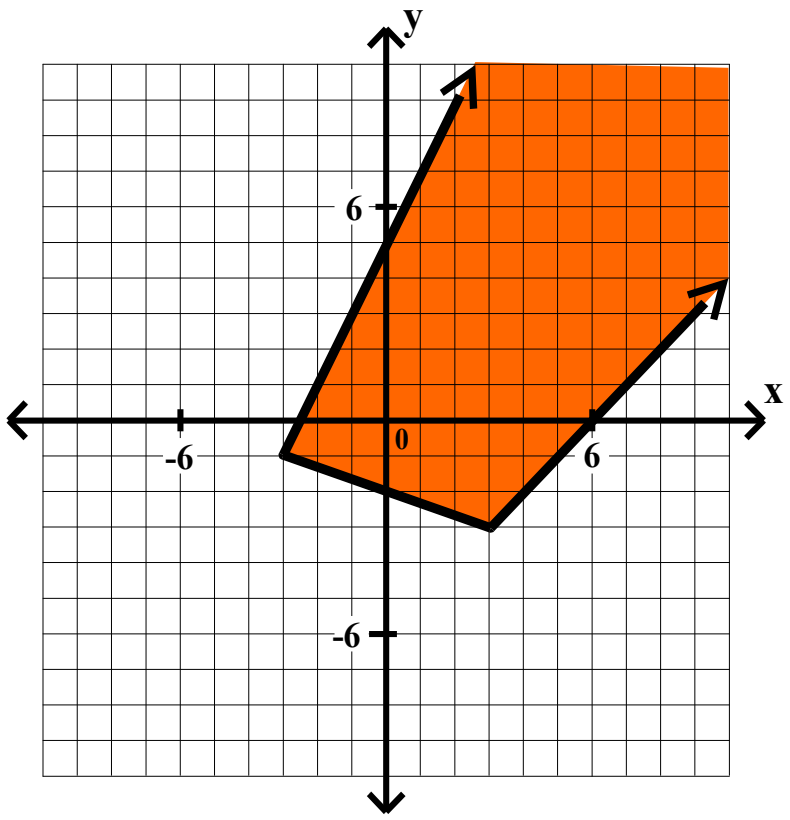
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$
$6x + 5y \leq 25$
$5y \leq -6x$

$-y \leq -x + 6$
$y \geq x - 6$
$3y \geq -x - 6$
$y \geq (-1/3)x - 2$
$y \leq 2x + 5$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

2. $x - y \leq 6$

$x + 3y \geq -6$

$-2x + y \leq 5$

$6x + 5y \leq 25$

$5y \leq -6x +$

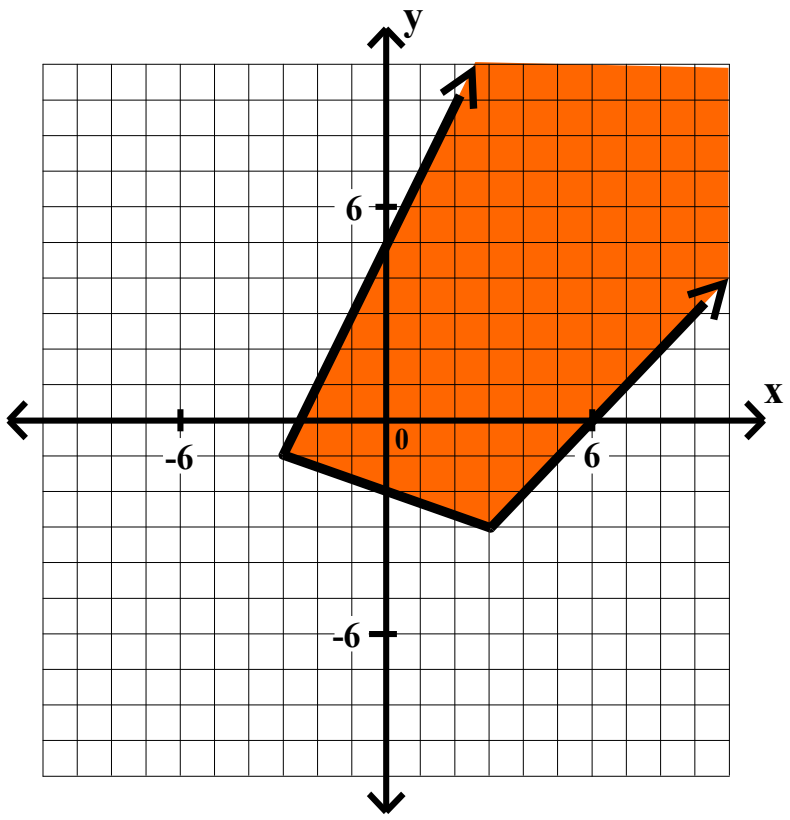
$-y \leq -x + 6$

$y \geq x - 6$

$3y \geq -x - 6$

$y \geq (-1/3)x - 2$

$y \leq 2x + 5$



Graph the <u>intersection</u> of the solution sets of all inequalities.

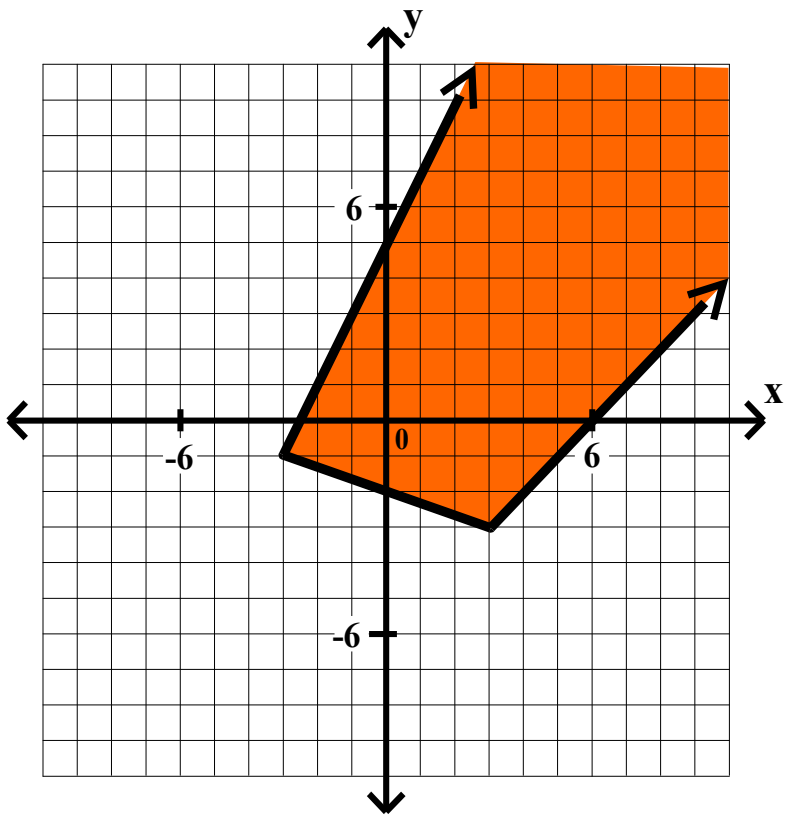
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$
$6x + 5y \leq 25$
$5y \leq -6x + 25$

$-y \leq -x + 6$
$y \geq x - 6$
$3y \geq -x - 6$
$y \geq (-1/3)x - 2$
$y \leq 2x + 5$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

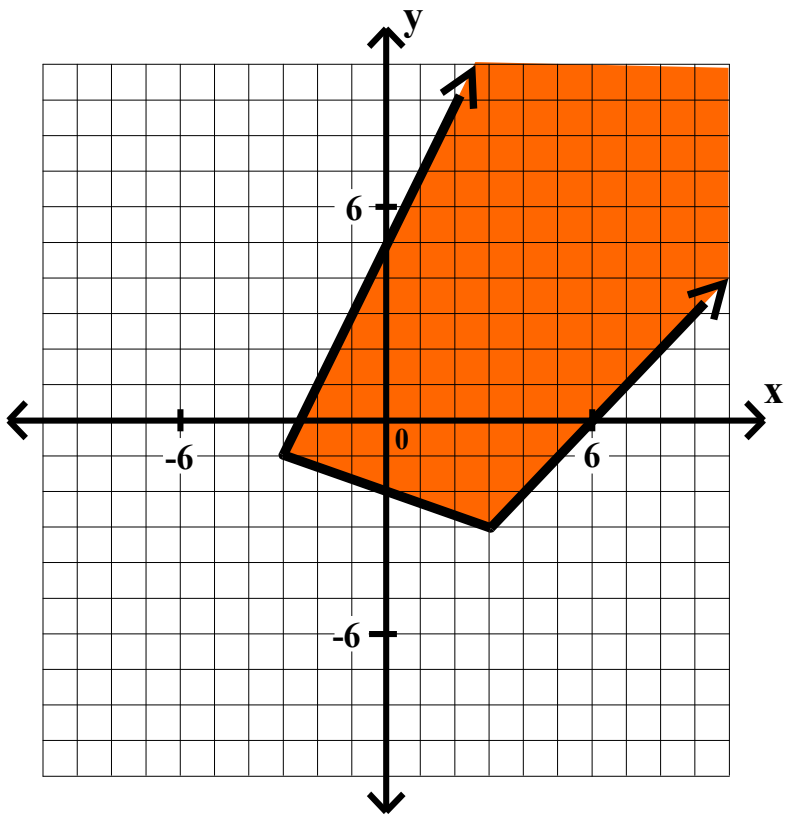
Systems of Linear Inequalities with Two Variables

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

2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$
$6x + 5y \leq 25$

$-y \leq -x + 6$
$y \geq x - 6$
$3y \geq -x - 6$
$y \geq (-1/3)x - 2$
$y \leq 2x + 5$

y



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

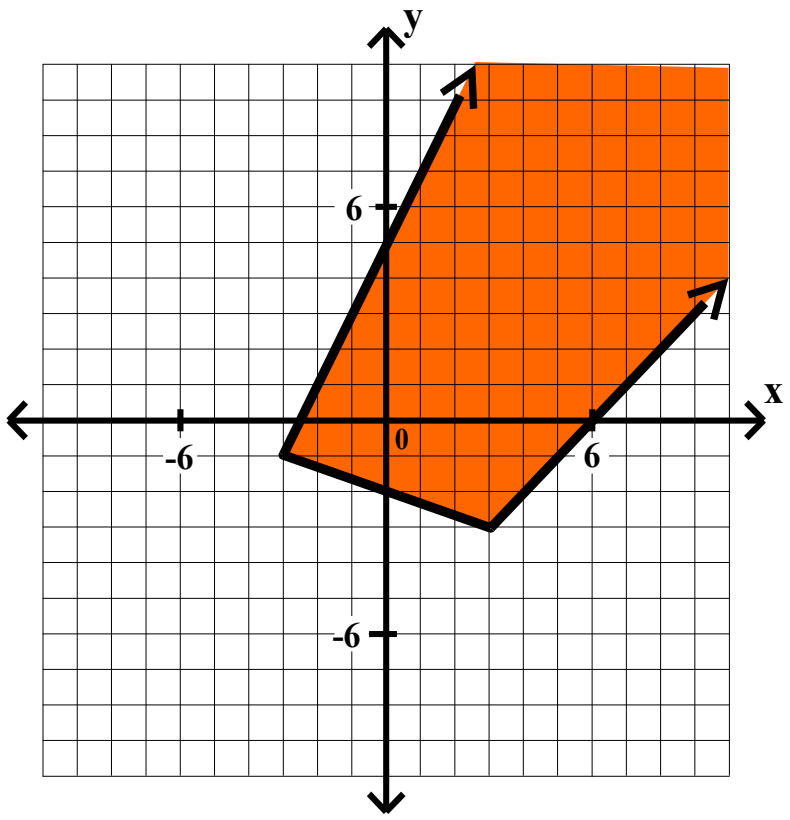
2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$

$-y \leq -x + 6$
$y \geq x - 6$

$3y \geq -x - 6$
$y \geq (-1/3)x - 2$

$y \leq 2x + 5$

$6x + 5y \leq 25$
$5y \leq -6x + 25$
$y \leq$



Graph the intersection of the solution sets of all inequalities.

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.

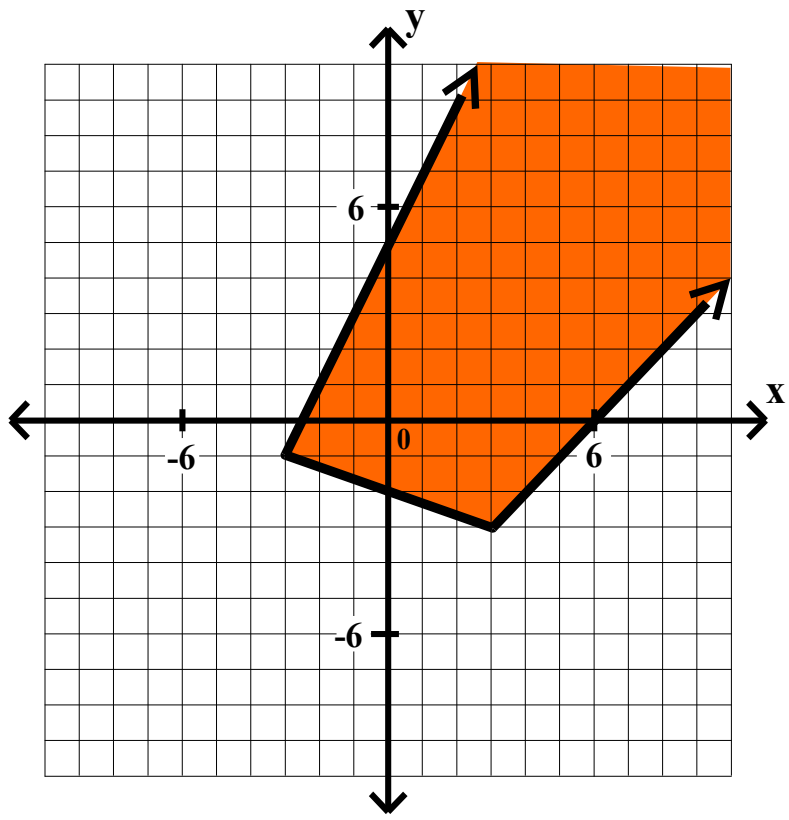
2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$

$-y \leq -x + 6$
$y \geq x - 6$

$3y \geq -x - 6$
$y \geq (-1/3)x - 2$

$y \leq 2x + 5$

$6x + 5y \leq 25$
$5y \leq -6x + 25$
$y \leq (-6/5)x$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

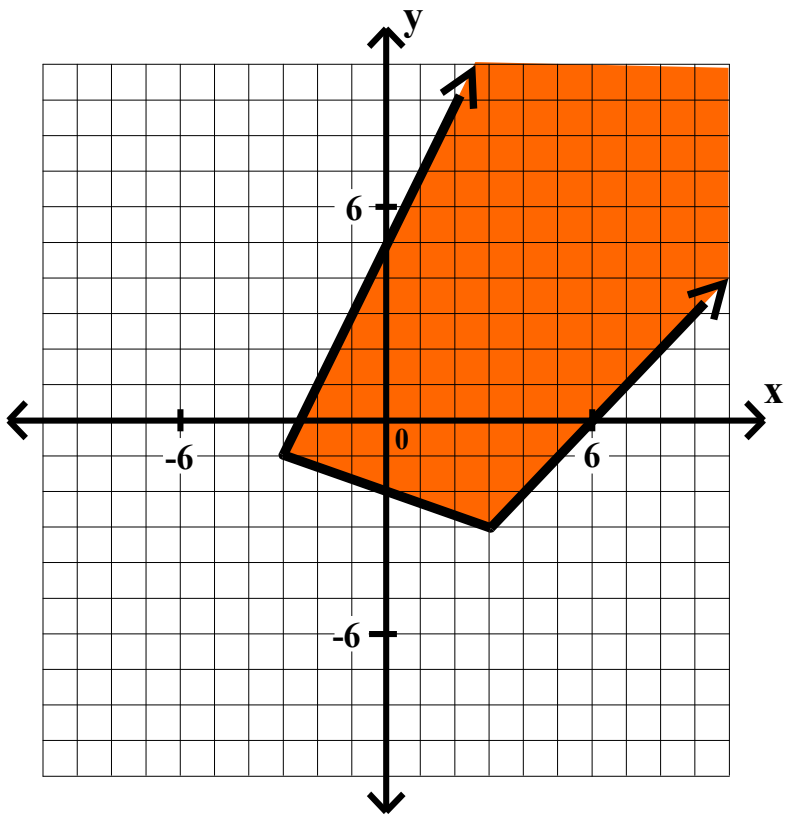
2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$

$-y \leq -x + 6$
$y \geq x - 6$

$3y \geq -x - 6$
$y \geq (-1/3)x - 2$

$y \leq 2x + 5$

$6x + 5y \leq 25$
$5y \leq -6x + 25$
$y \leq (-6/5)x +$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

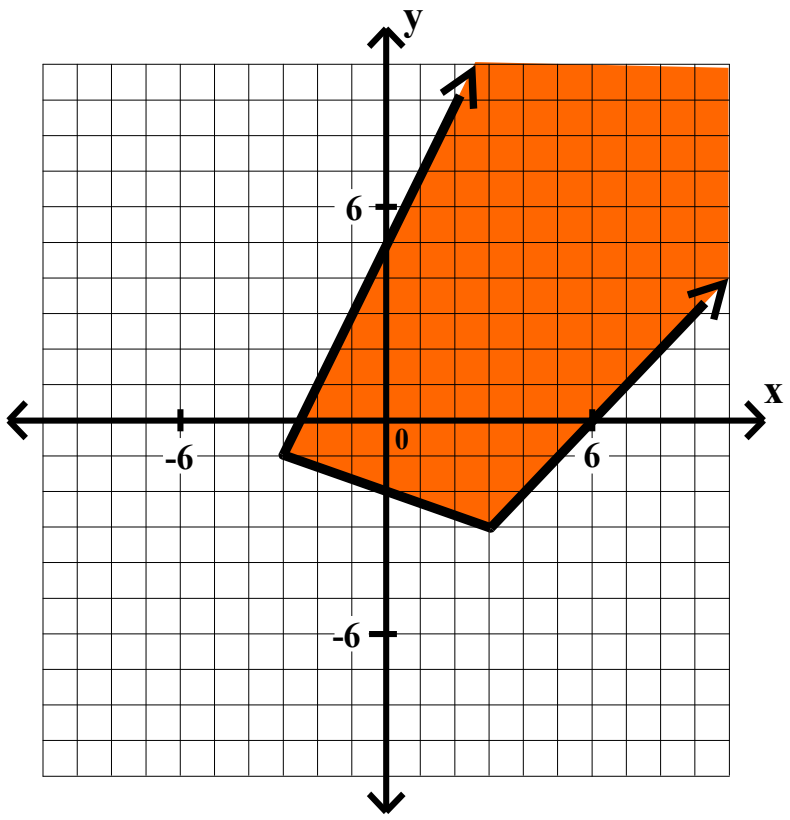
2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$

$-y \leq -x + 6$
$y \geq x - 6$

$6x + 5y \leq 25$
$5y \leq -6x + 25$
$y \leq (-6/5)x + 5$

$3y \geq -x - 6$
$y \geq (-1/3)x - 2$

$y \leq 2x + 5$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

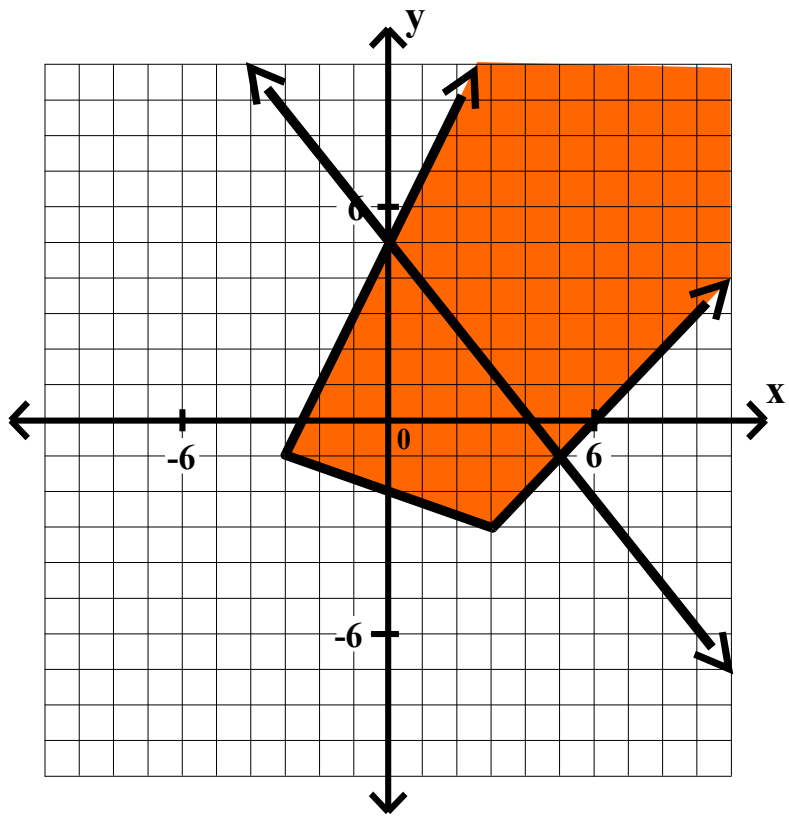
2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$

$-y \leq -x + 6$
$y \geq x - 6$

$6x + 5y \leq 25$
$5y \leq -6x + 25$
$y \leq (-6/5)x + 5$

$3y \geq -x - 6$
$y \geq (-1/3)x - 2$

$y \leq 2x + 5$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

2.

$x - y \leq 6$

$x + 3y \geq -6$

$-2x + y \leq 5$

$6x + 5y \leq 25$

$5y \leq -6x + 25$

$y \leq (-6/5)x + 5$

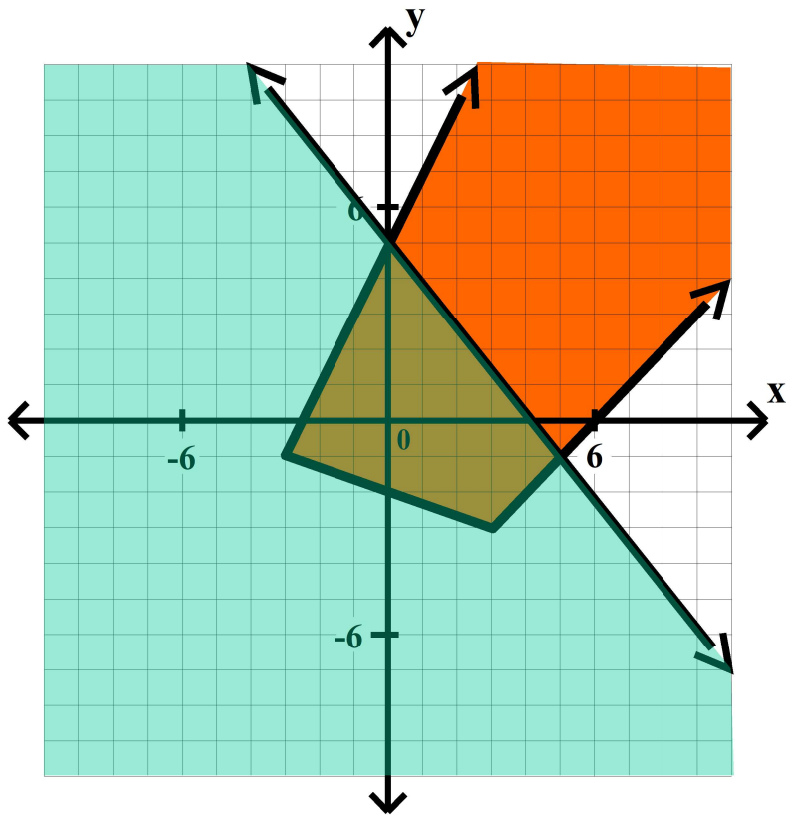
$-y \leq -x + 6$

$y \geq x - 6$

$3y \geq -x - 6$

$y \geq (-1/3)x - 2$

$y \leq 2x + 5$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

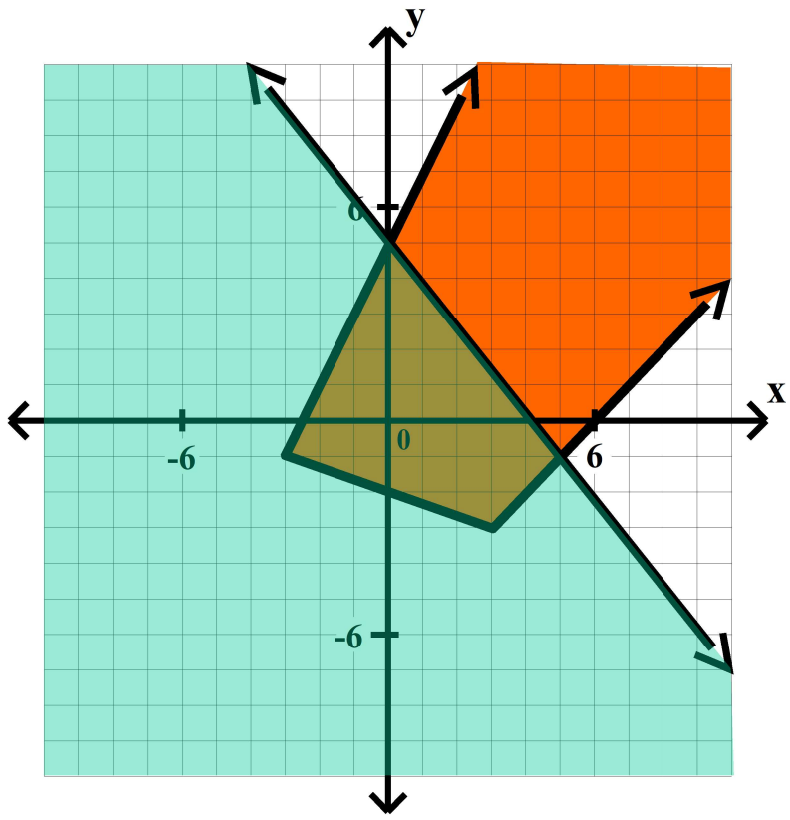
2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$

$-y \leq -x + 6$
$y \geq x - 6$

$6x + 5y \leq 25$
$5y \leq -6x + 25$
$y \leq (-6/5)x + 5$

$3y \geq -x - 6$
$y \geq (-1/3)x - 2$

$y \leq 2x + 5$



Graph the intersection of the solution sets of all inequalities.

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.

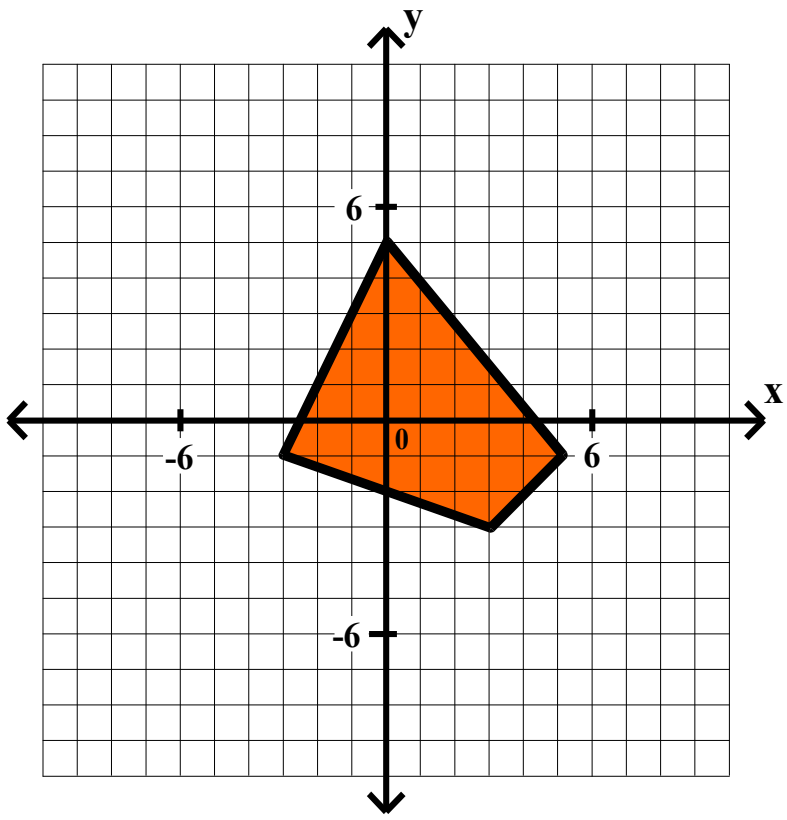
2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$

$-y \leq -x + 6$
$y \geq x - 6$

$6x + 5y \leq 25$
$5y \leq -6x + 25$
$y \leq (-6/5)x + 5$

$3y \geq -x - 6$
$y \geq (-1/3)x - 2$

$y \leq 2x + 5$



Graph the intersection of the solution sets of all inequalities.

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.

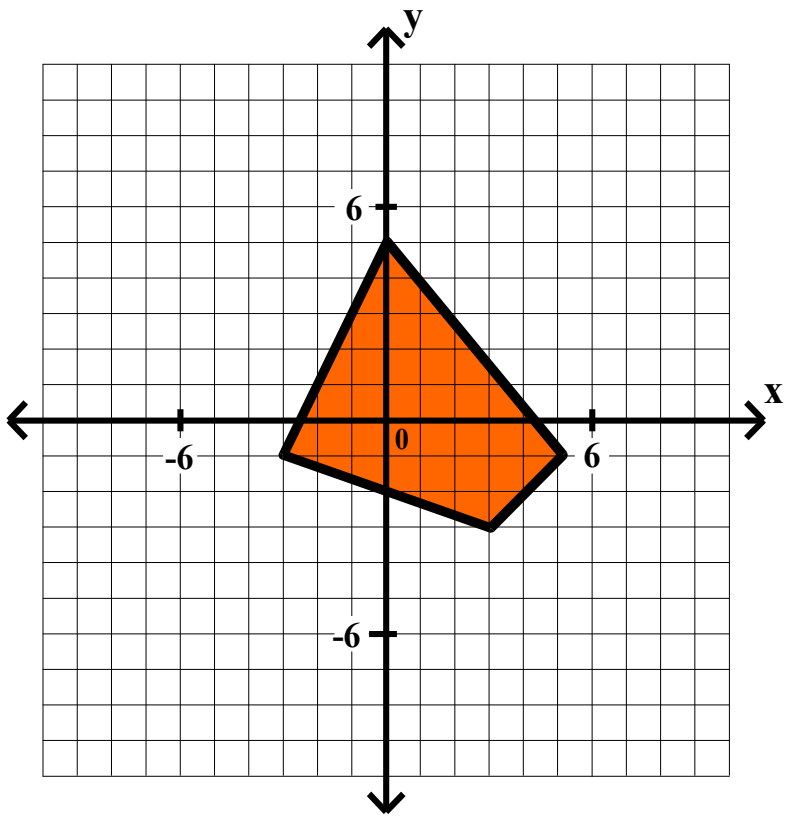
2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$

$-y \leq -x + 6$
$y \geq x - 6$

$6x + 5y \leq 25$
$5y \leq -6x + 25$
$y \leq (-6/5)x + 5$

$3y \geq -x - 6$
$y \geq (-1/3)x - 2$

$y \leq 2x + 5$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

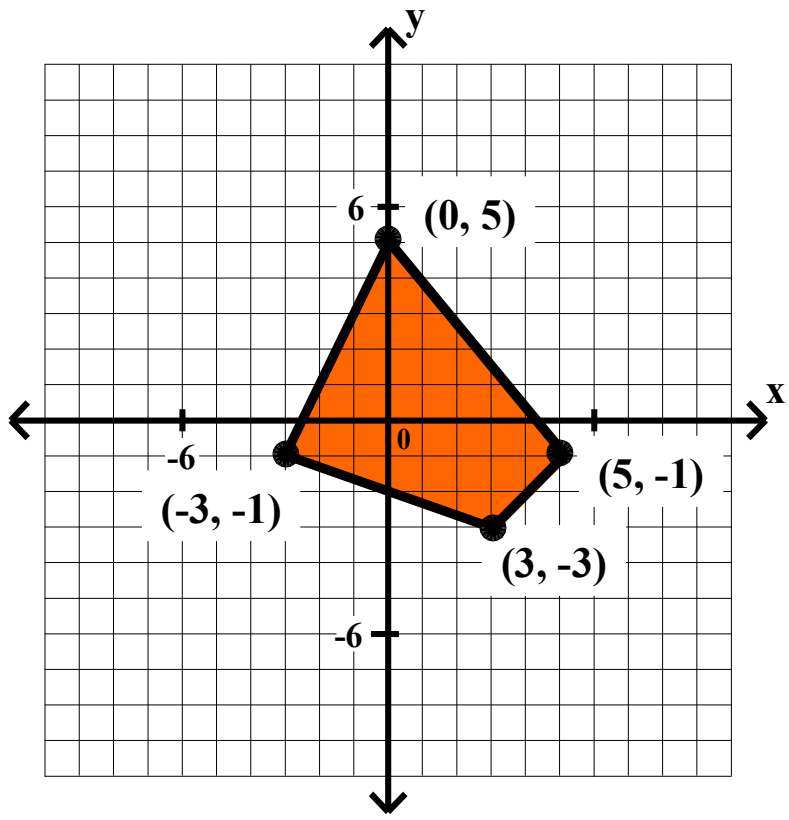
2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$

$-y \leq -x + 6$
$y \geq x - 6$

$3y \geq -x - 6$
$y \geq (-1/3)x - 2$

$y \leq 2x + 5$

$6x + 5y \leq 25$
$5y \leq -6x + 25$
$y \leq (-6/5)x + 5$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

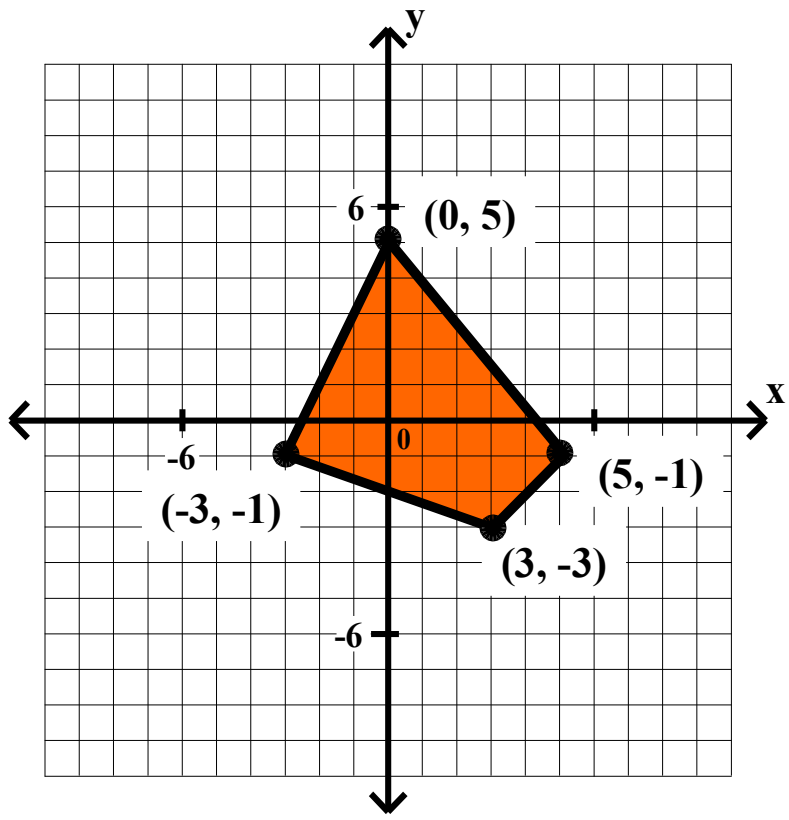
2. $x - y \leq 6$
$x + 3y \geq -6$
$-2x + y \leq 5$
$6x + 5y \leq 25$

$5y \leq -6x + 25$
$y \leq (-6/5)x + 5$

$-y \leq -x + 6$
$y \geq x - 6$

$3y \geq -x - 6$
$y \geq (-1/3)x - 2$

$y \leq 2x + 5$



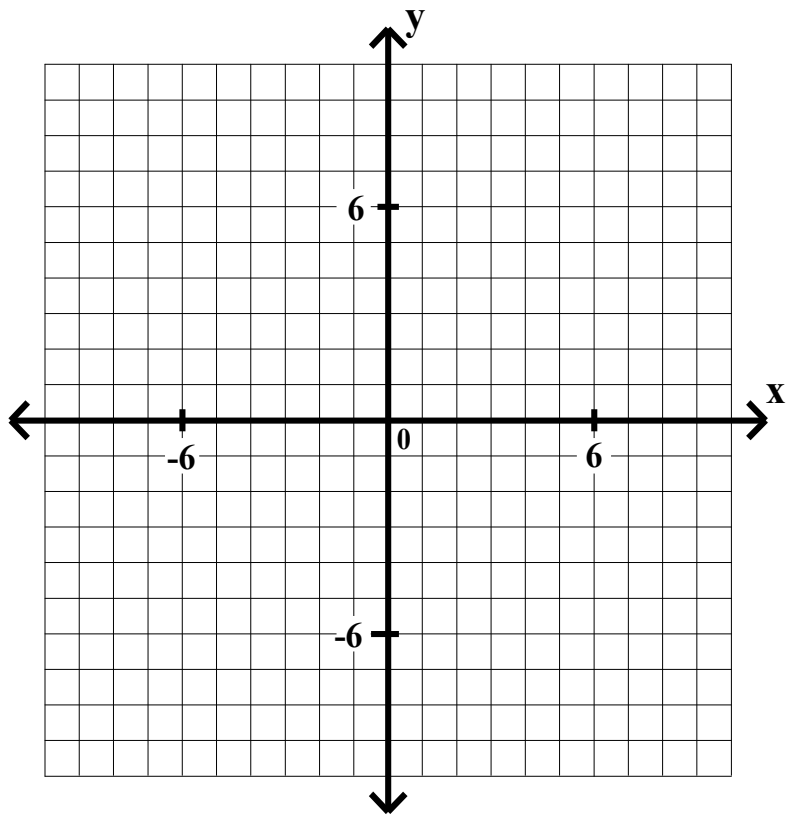
Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

3. $2x - 3y \leq 15$
   $2x + y \leq 11$
   $x + 3y \leq 18$
   $-4x + 3y \leq 33$
   $x + y \geq -10$

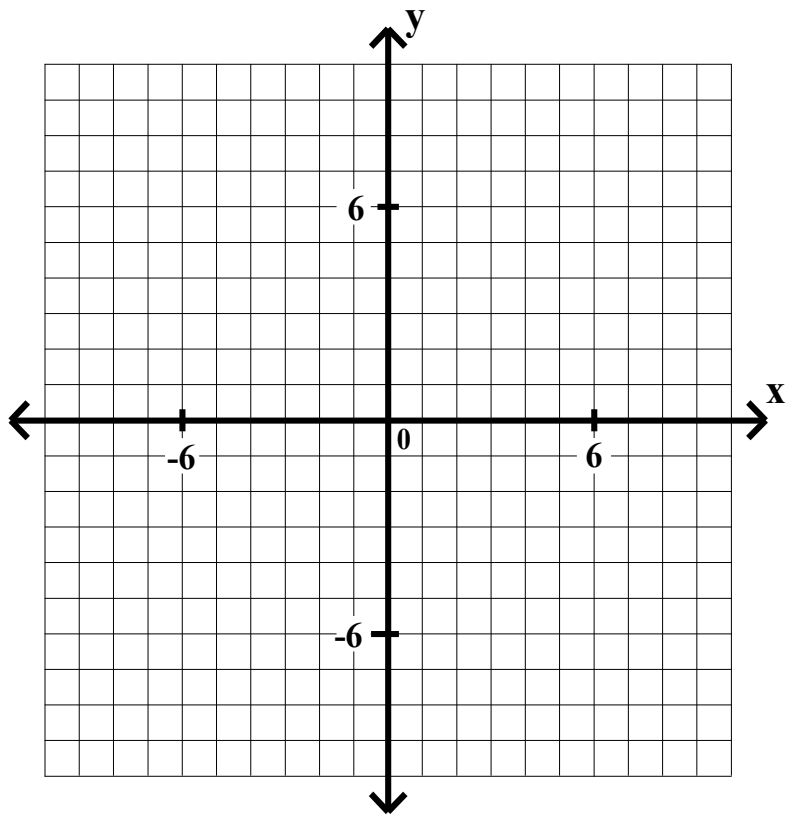


Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

3. $2x - 3y \leq 15$
   $2x + y \leq 11$
   $x + 3y \leq 18$
   $-4x + 3y \leq 33$
   $x + y \geq -10$

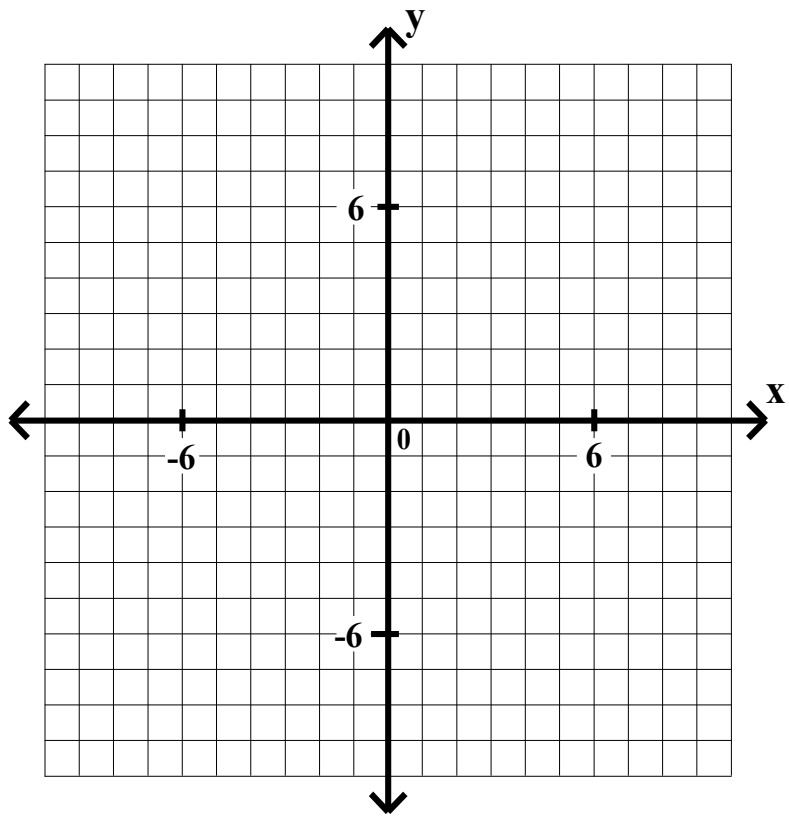


Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

3. $2x - 3y \leq 15$
   $2x + y \leq 11$
   $x + 3y \leq 18$
   $-4x + 3y \leq 33$
   $x + y \geq -10$



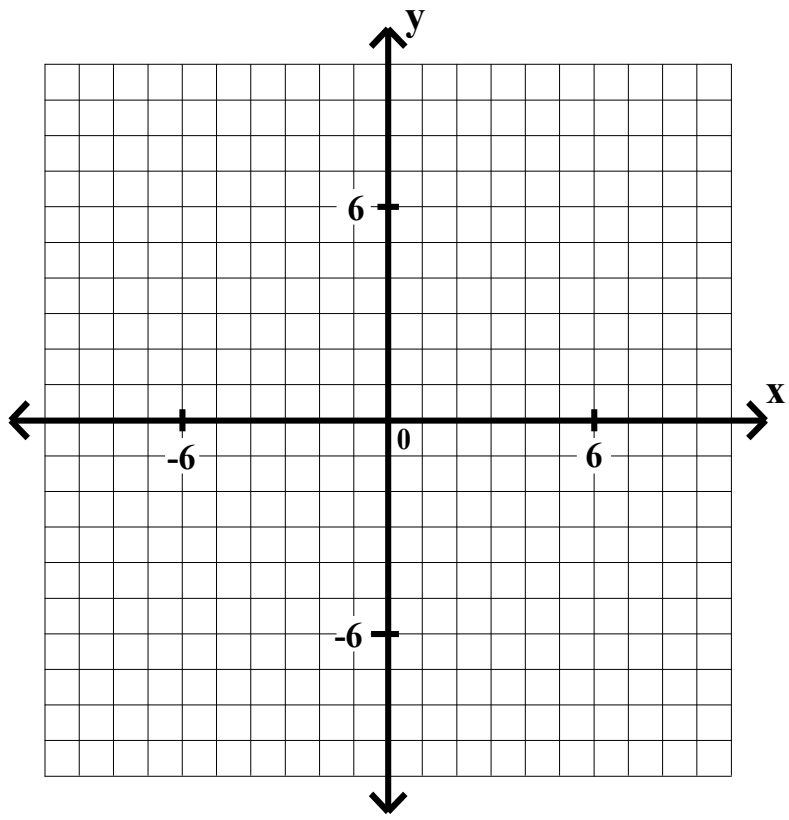
Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$



Graph the intersection of the solution sets of all inequalities.

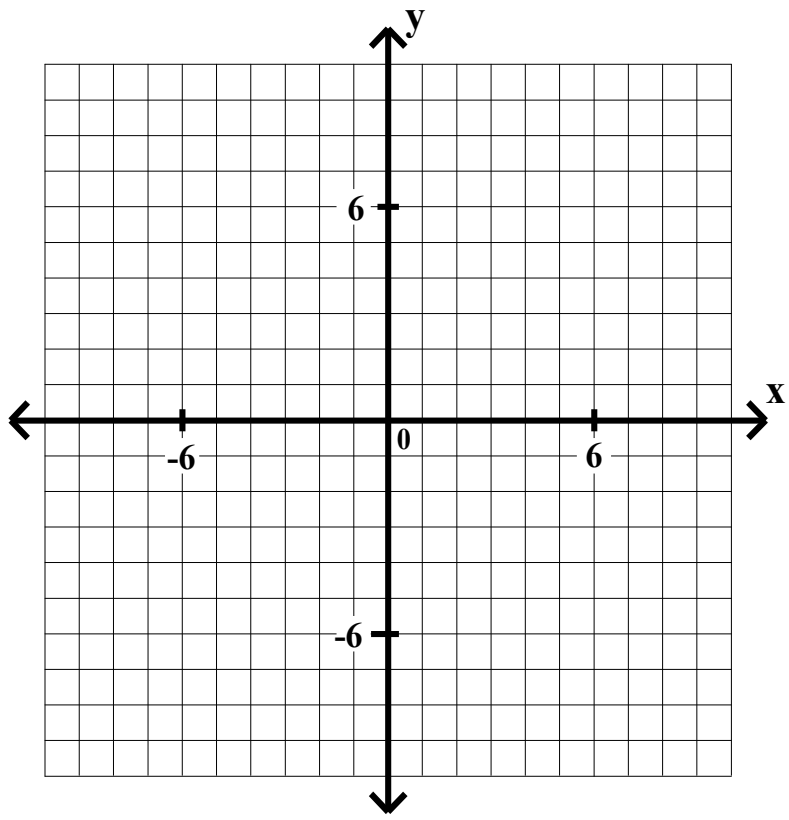
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

3. $2x - 3y \leq 15$
   $2x + y \leq 11$
   $x + 3y \leq 18$
   $-4x + 3y \leq 33$
   $x + y \geq -10$

$-3y$



Graph the <u>intersection</u> of the solution sets of all inequalities.

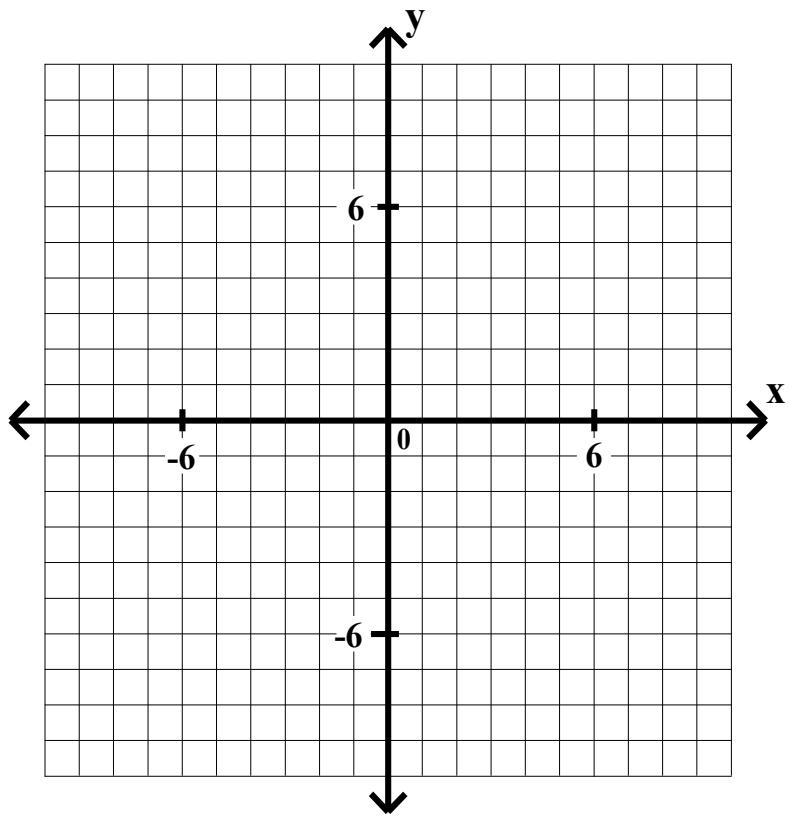
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

3. $2x - 3y \leq 15$
   $2x + y \leq 11$
   $x + 3y \leq 18$
   $-4x + 3y \leq 33$
   $x + y \geq -10$

$-3y \leq$



Graph the <u>intersection</u> of the solution sets of all inequalities.

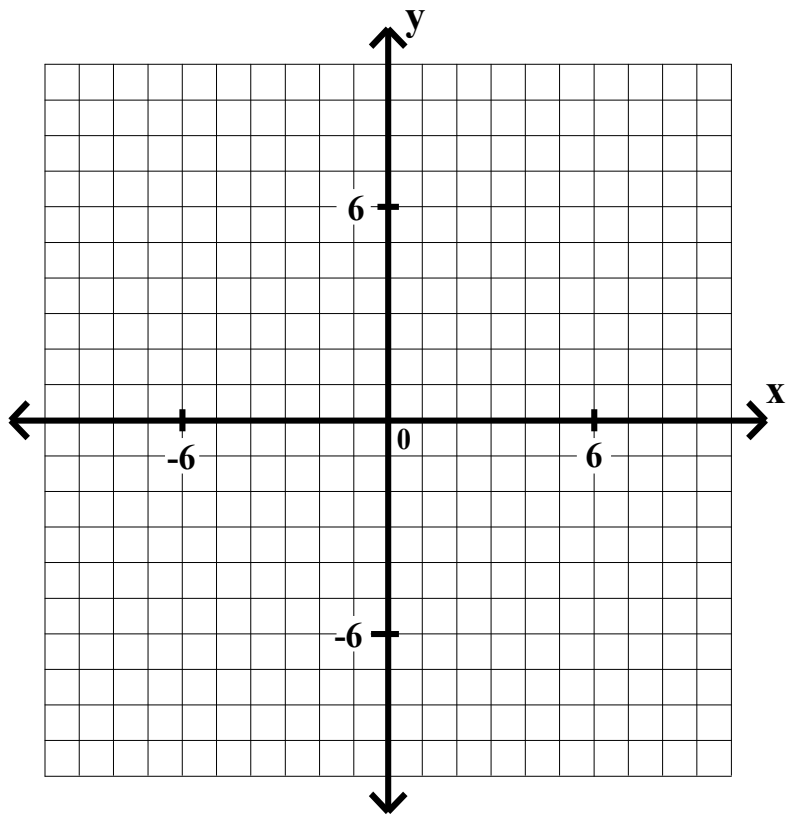
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x$



Graph the <u>intersection</u> of the solution sets of all inequalities.

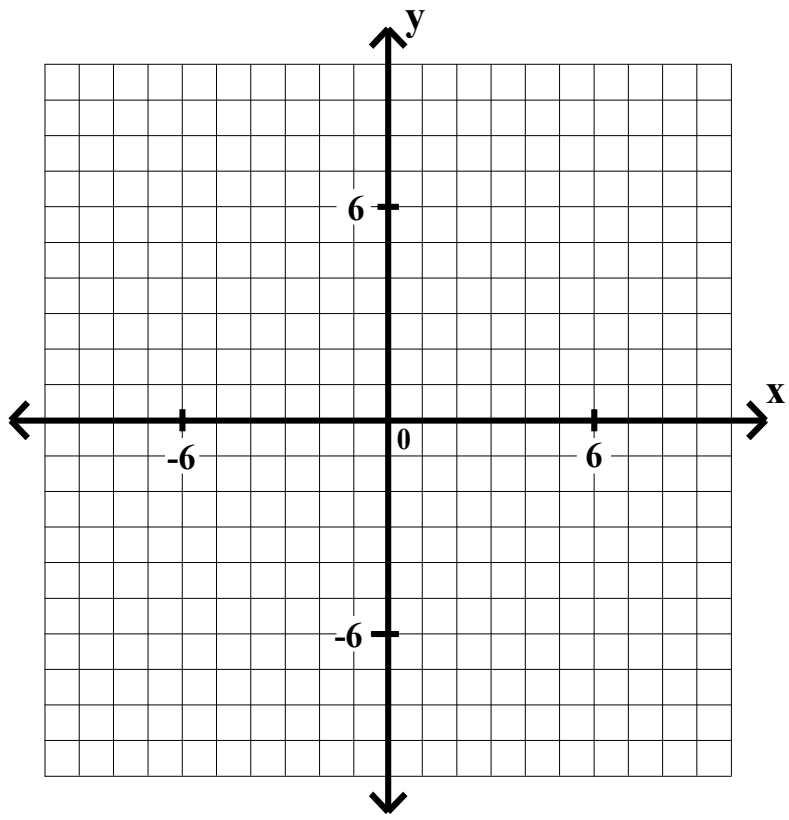
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x +$



Graph the <u>intersection</u> of the solution sets of all inequalities.

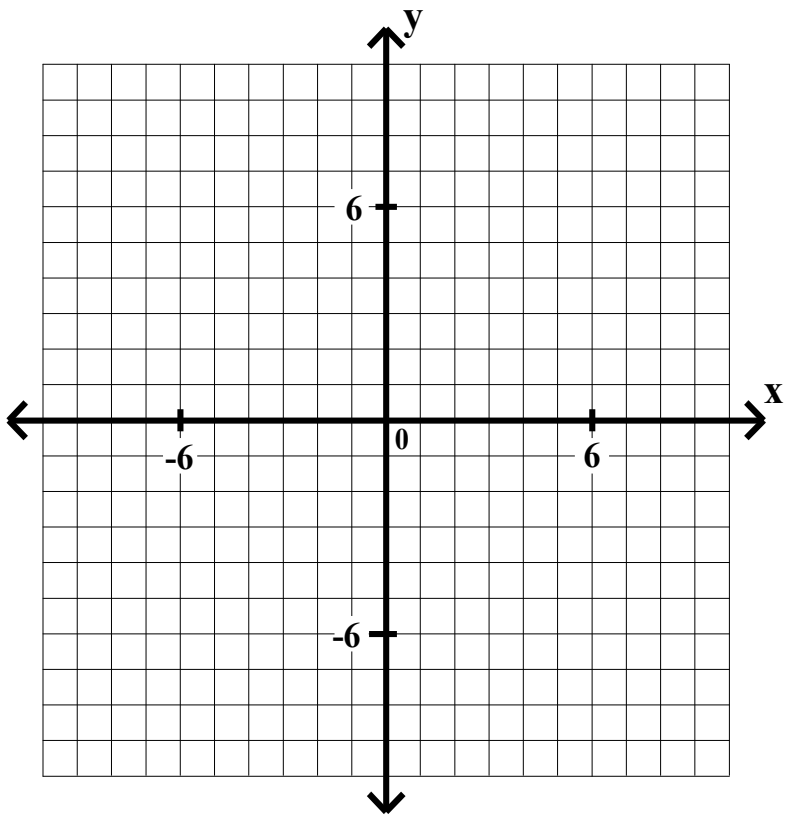
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

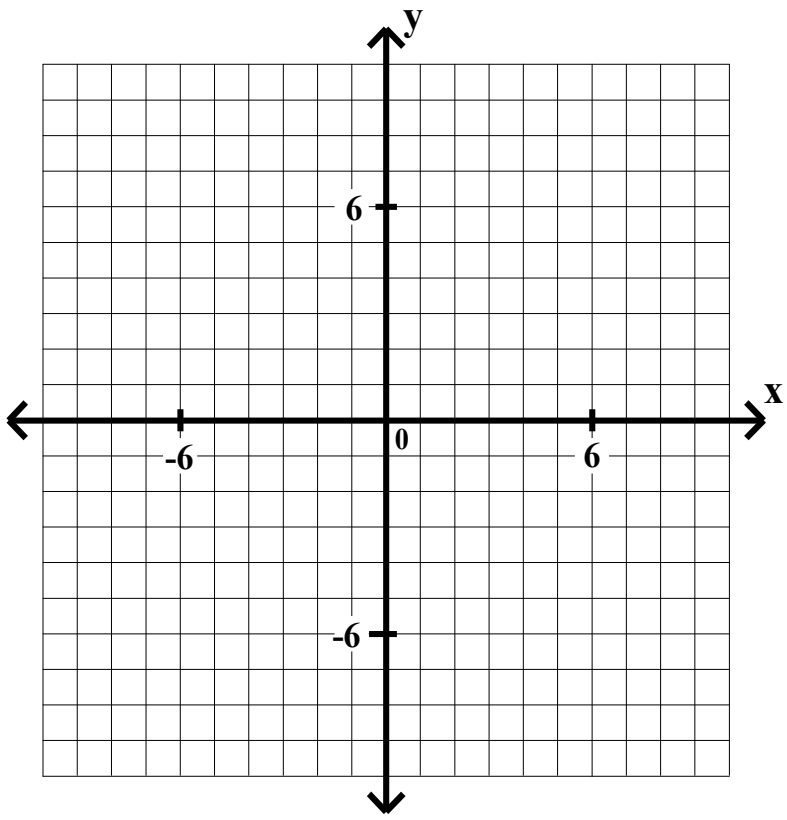
Systems of Linear Inequalities with Two Variables

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

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$

y



Graph the <u>intersection</u> of the solution sets of all inequalities.

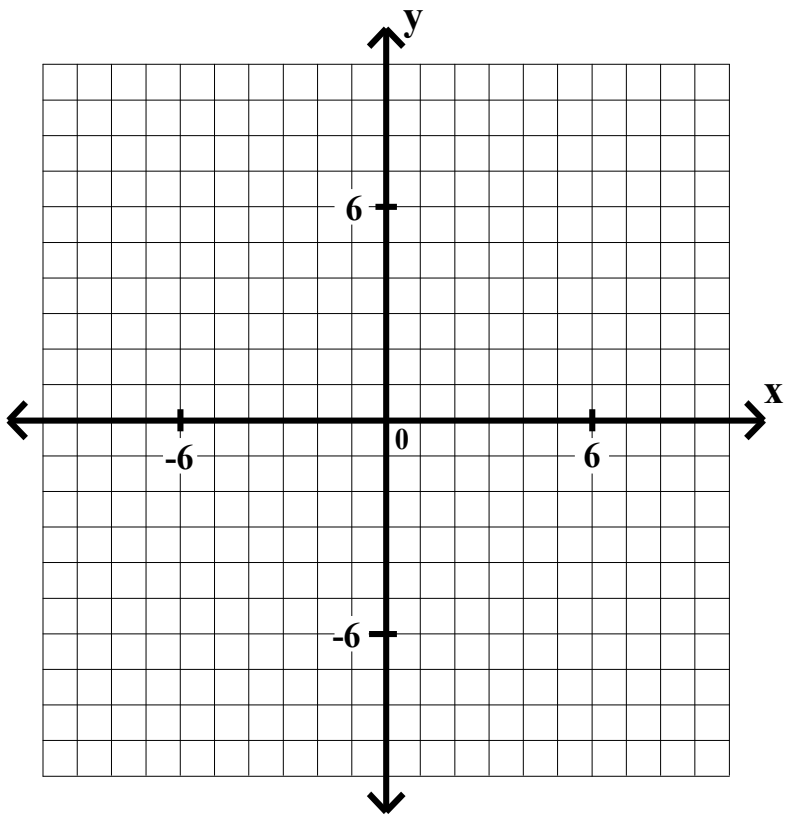
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq$



Graph the <u>intersection</u> of the solution sets of all inequalities.

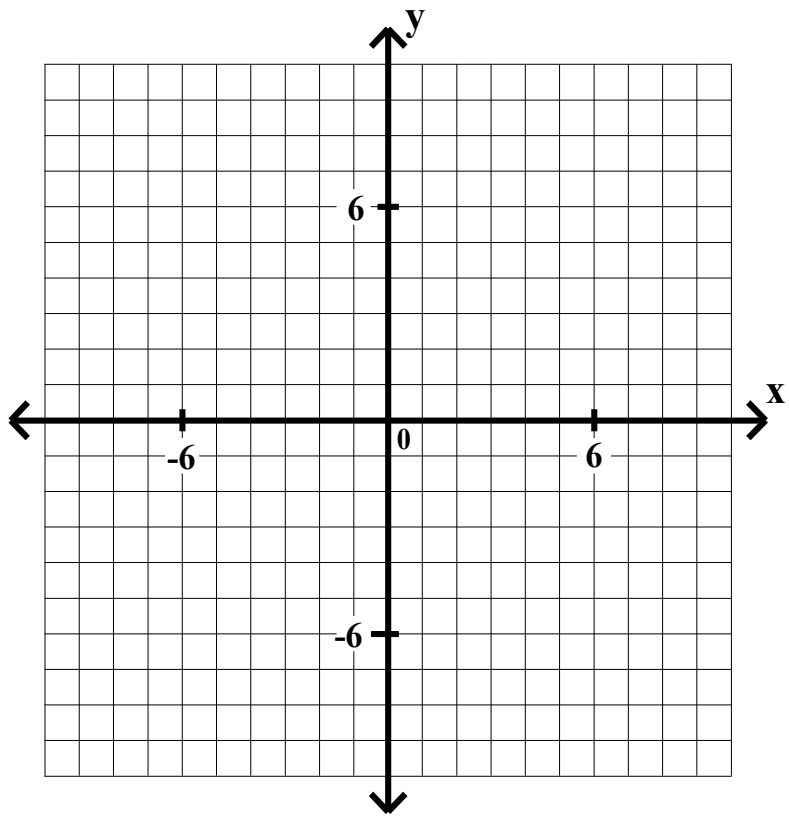
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x$



Graph the <u>intersection</u> of the solution sets of all inequalities.

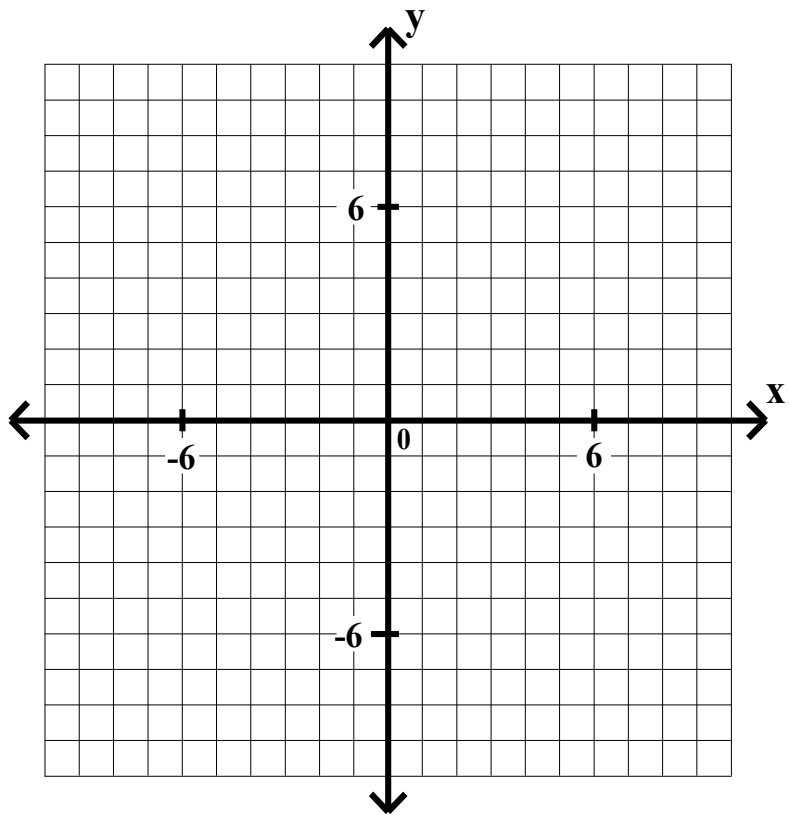
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x -$



Graph the intersection of the solution sets of all inequalities.

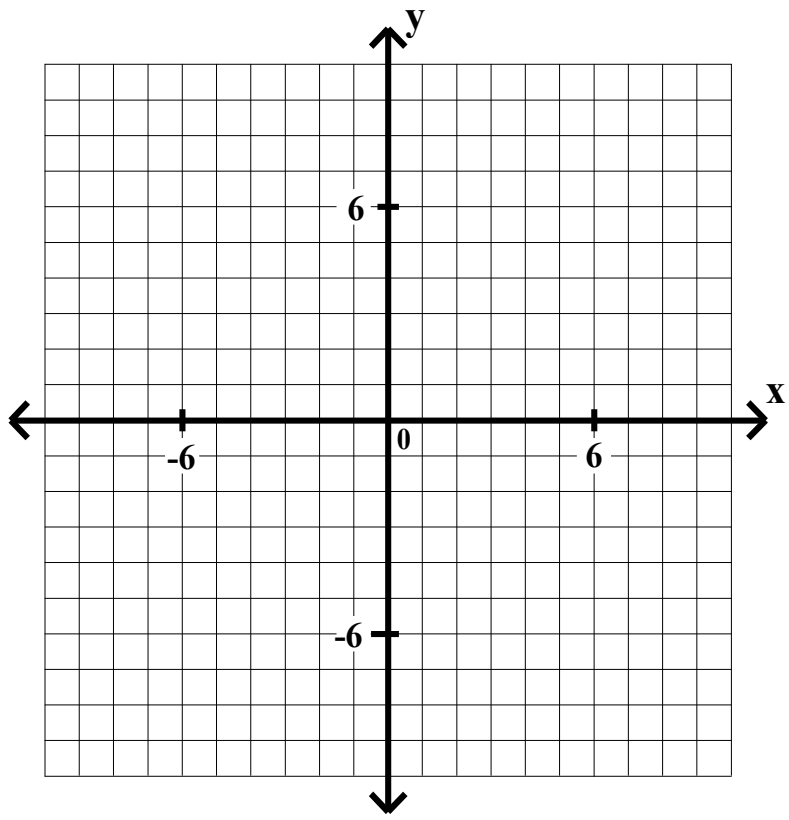
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$



Graph the <u>intersection</u> of the solution sets of all inequalities.

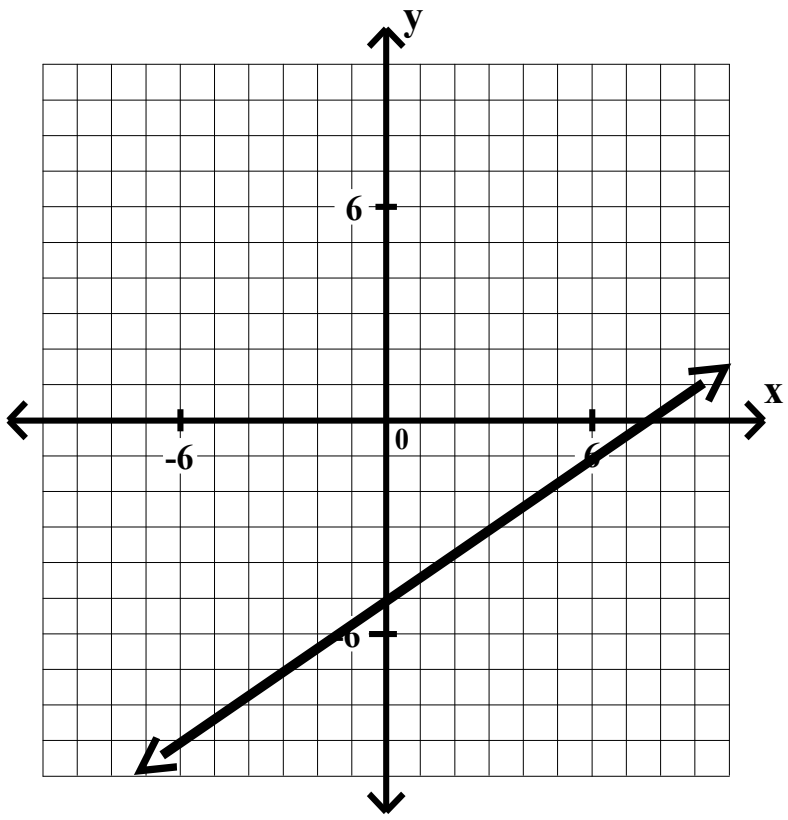
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$



Graph the <u>intersection</u> of the solution sets of all inequalities.

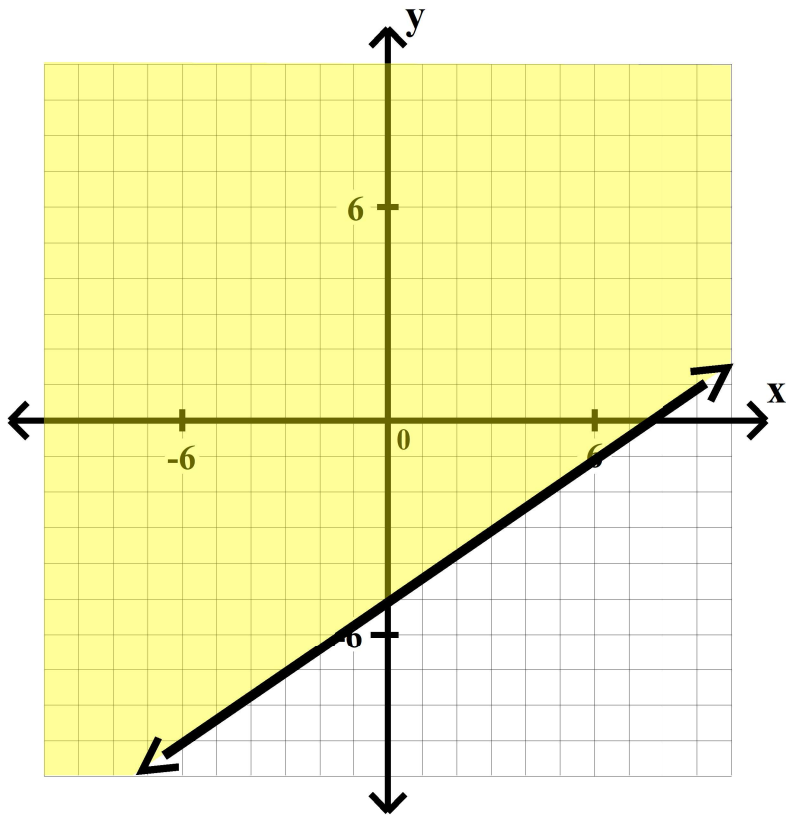
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$



Graph the <u>intersection</u> of the solution sets of all inequalities.

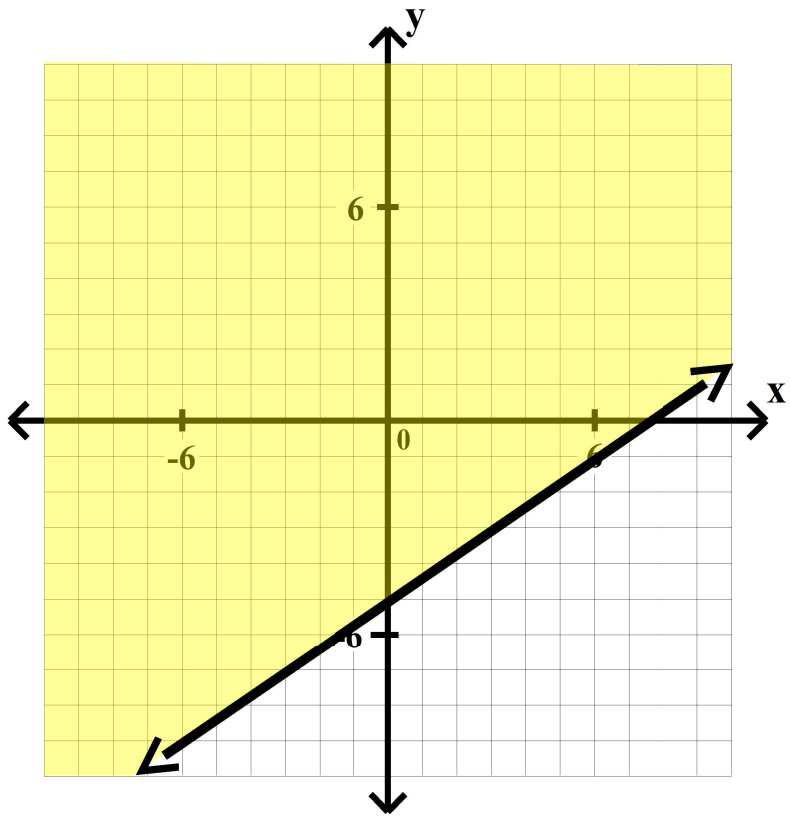
Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

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

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

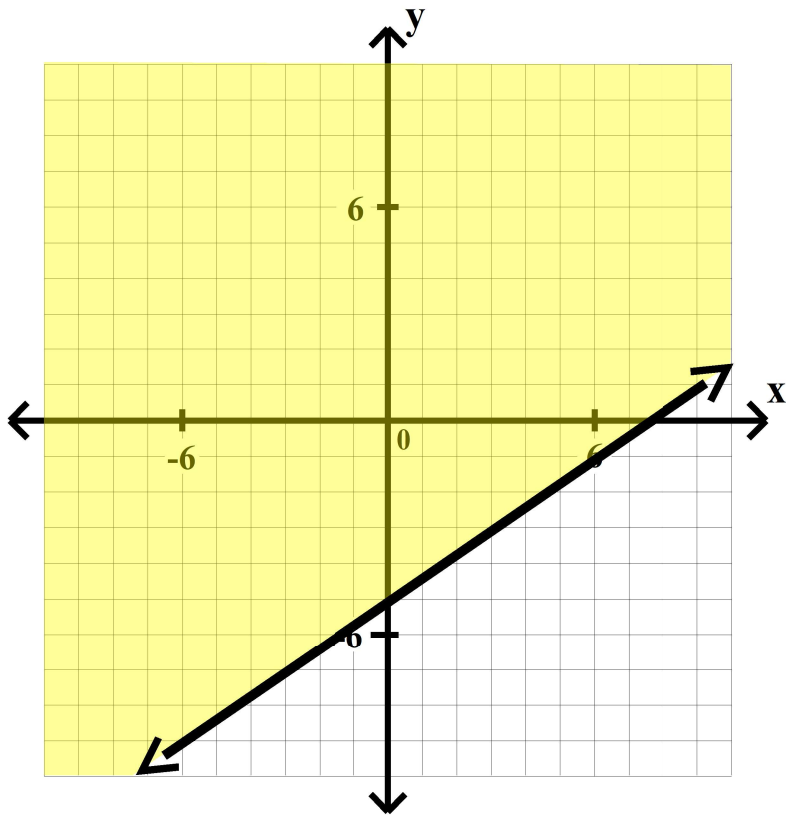
Systems of Linear Inequalities with Two Variables

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

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

y



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

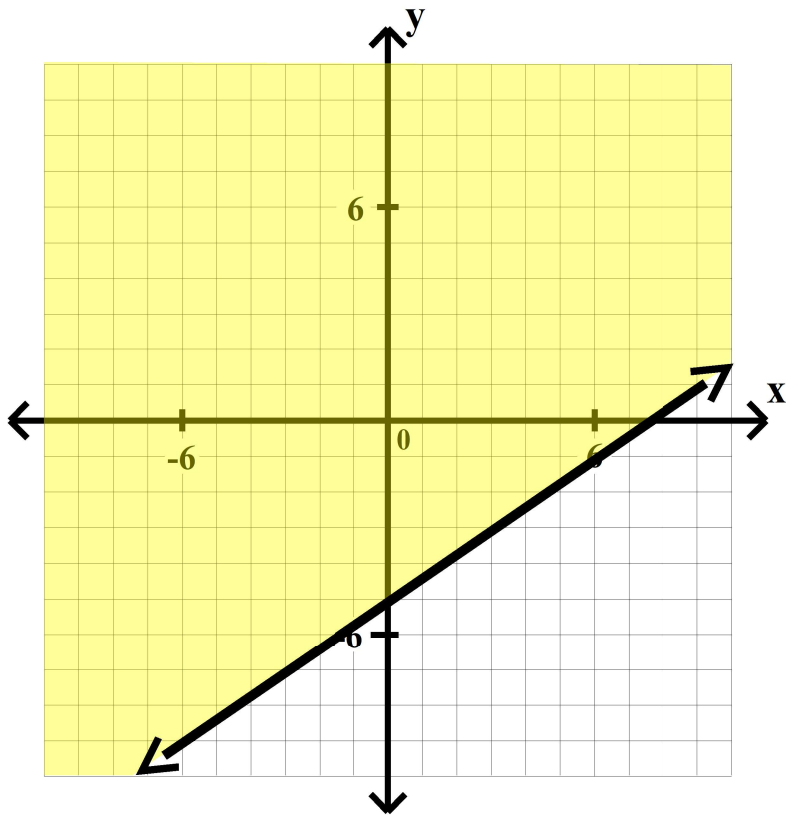
Systems of Linear Inequalities with Two Variables

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

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

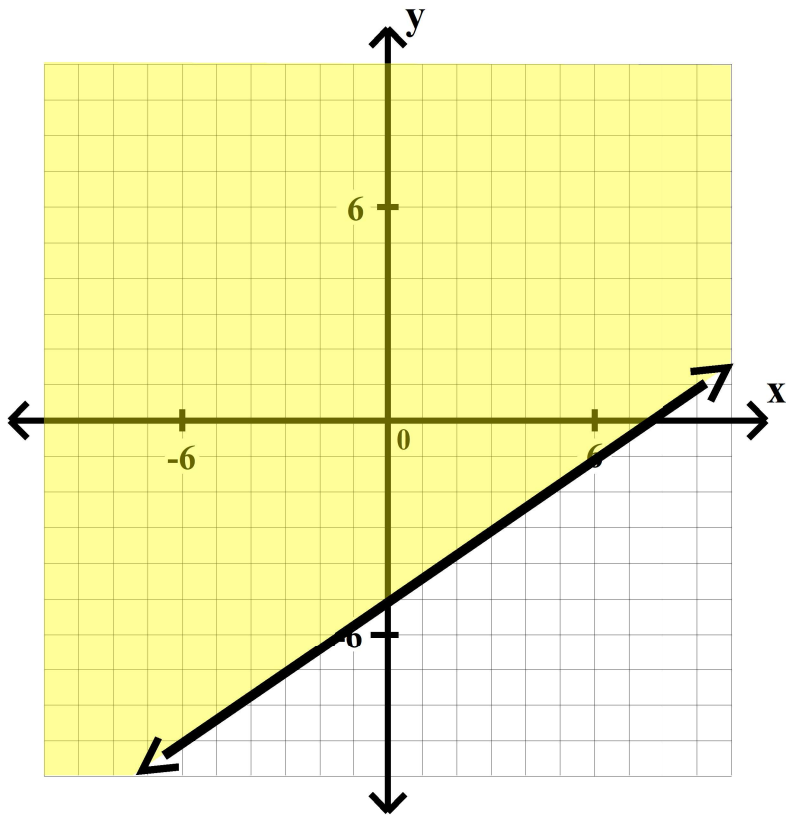
Systems of Linear Inequalities with Two Variables

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

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

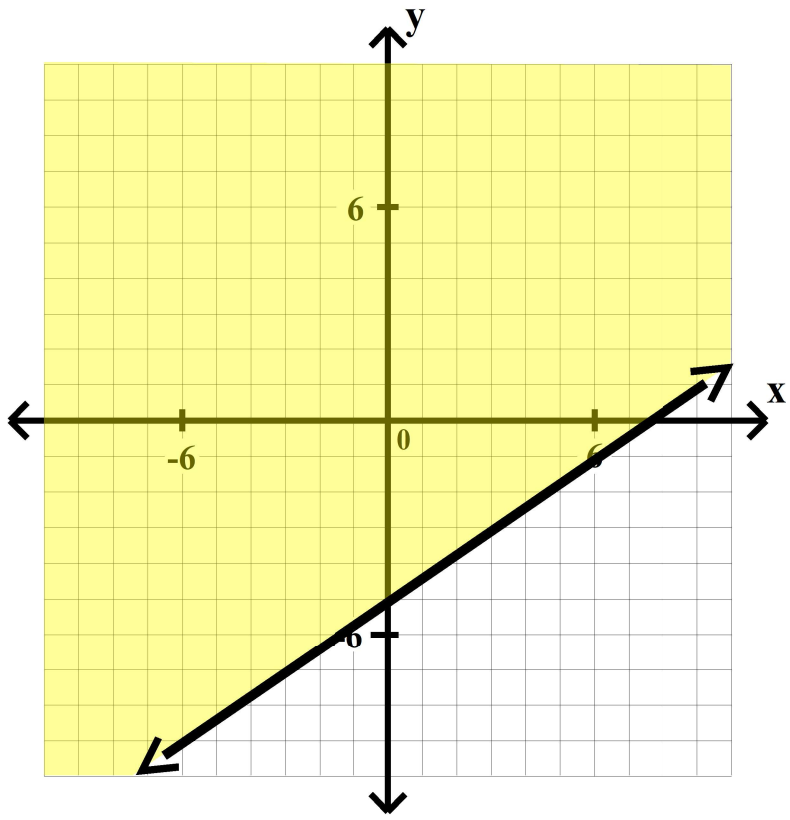
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

3.

$2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x +$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

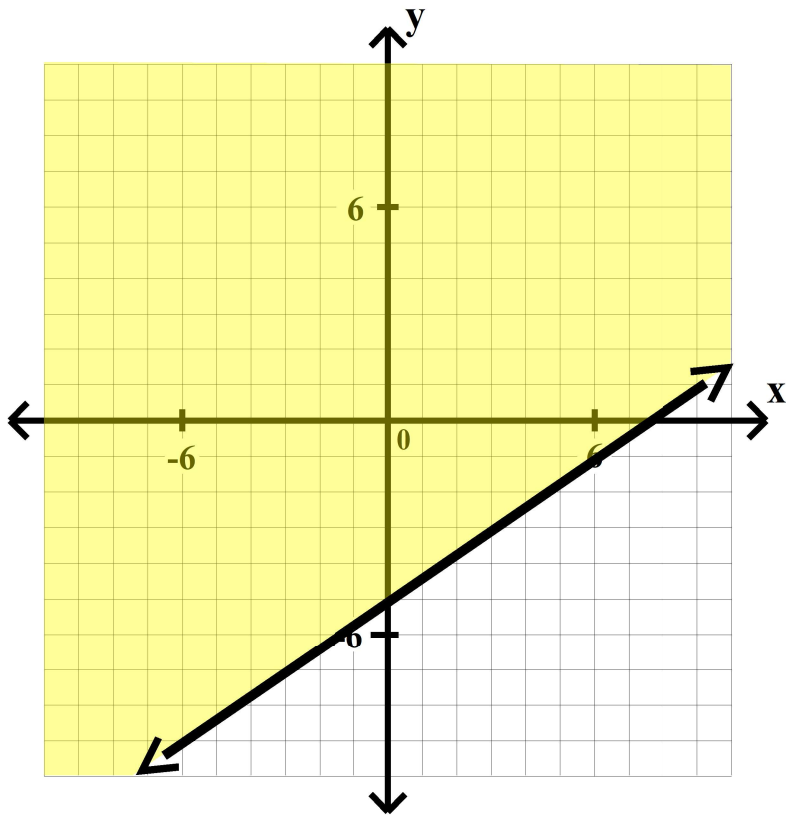
Systems of Linear Inequalities with Two Variables

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

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

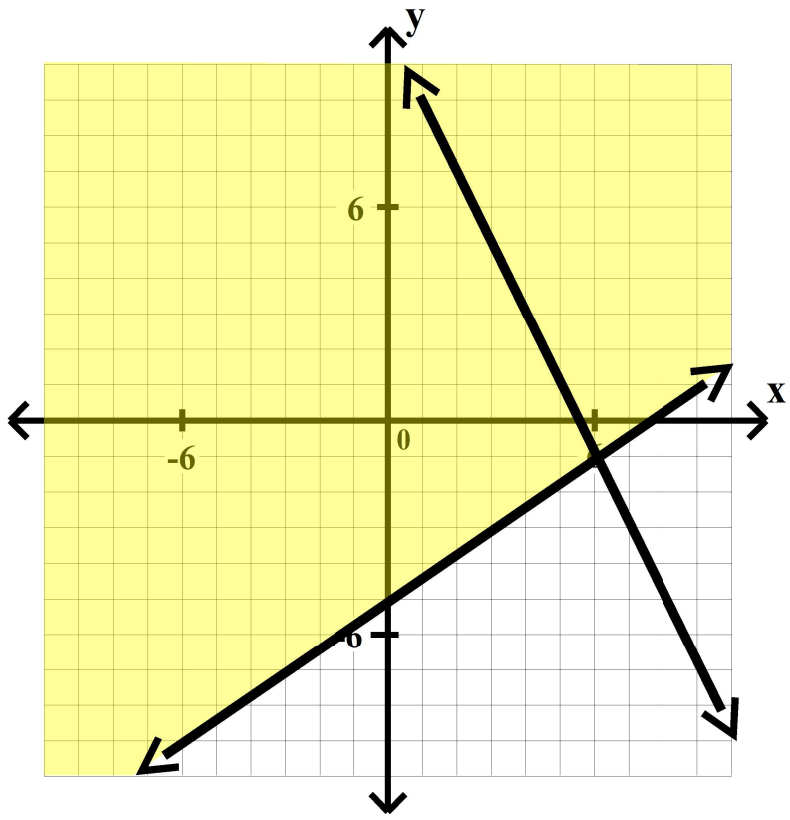
Systems of Linear Inequalities with Two Variables

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

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

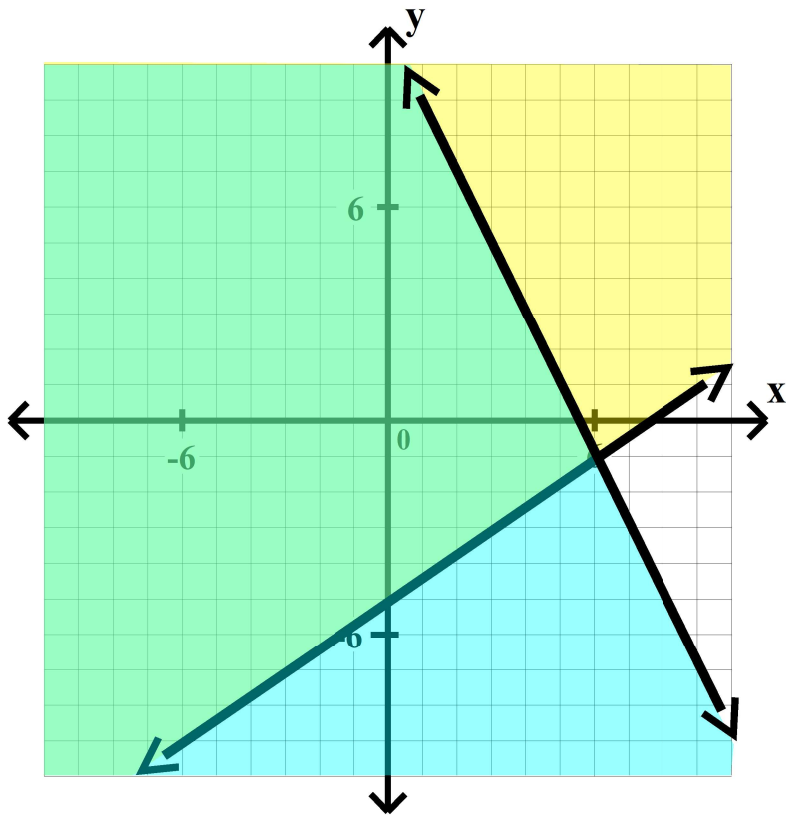
Systems of Linear Inequalities with Two Variables

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

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

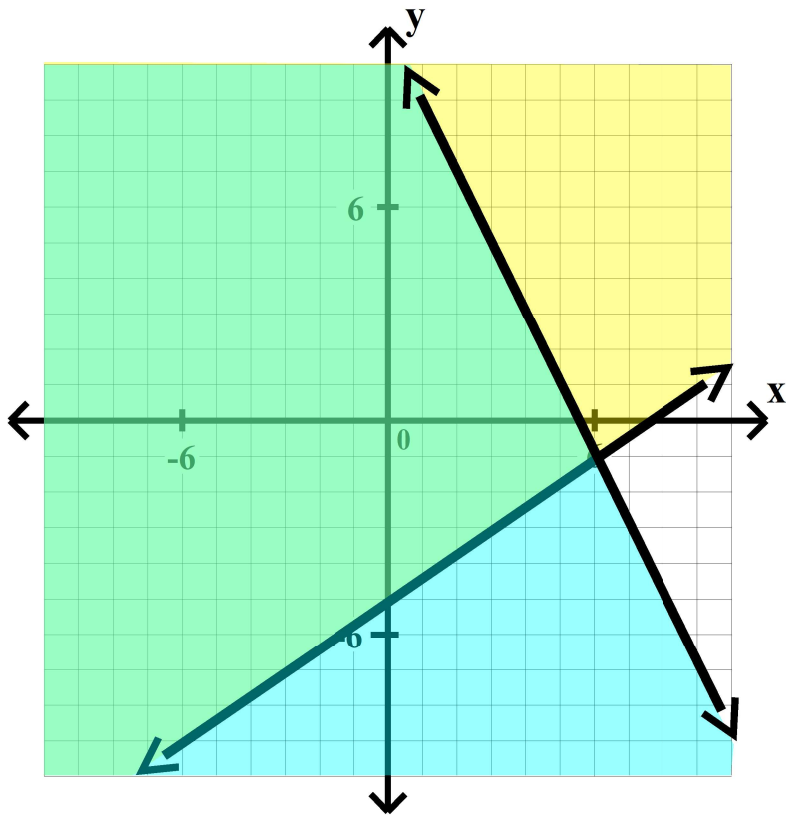
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

3.

$2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

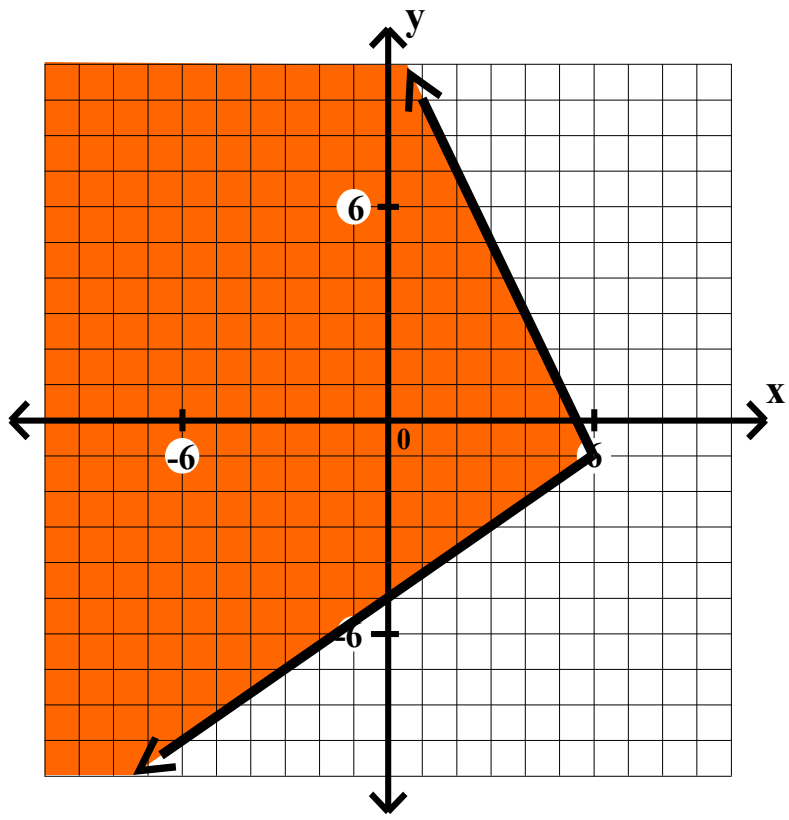
Systems of Linear Inequalities with Two Variables

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

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

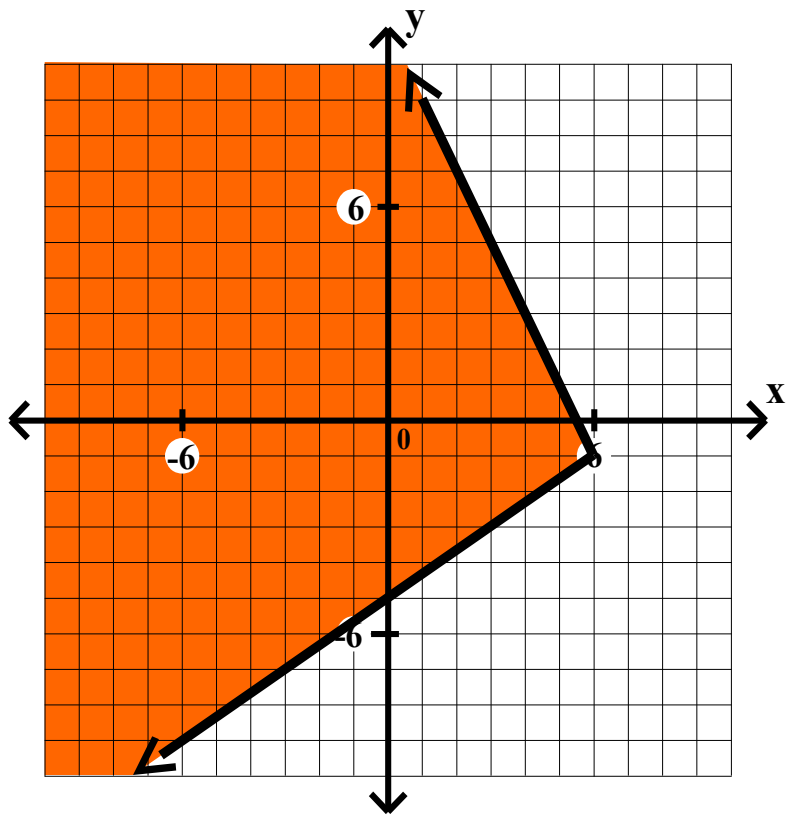
Systems of Linear Inequalities with Two Variables

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

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

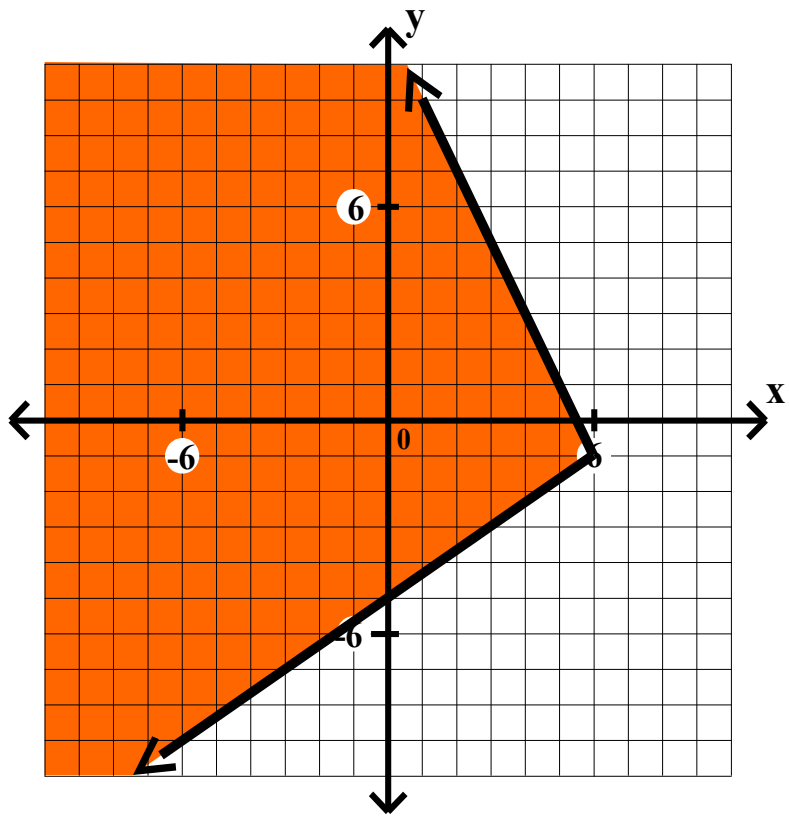
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

3y



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

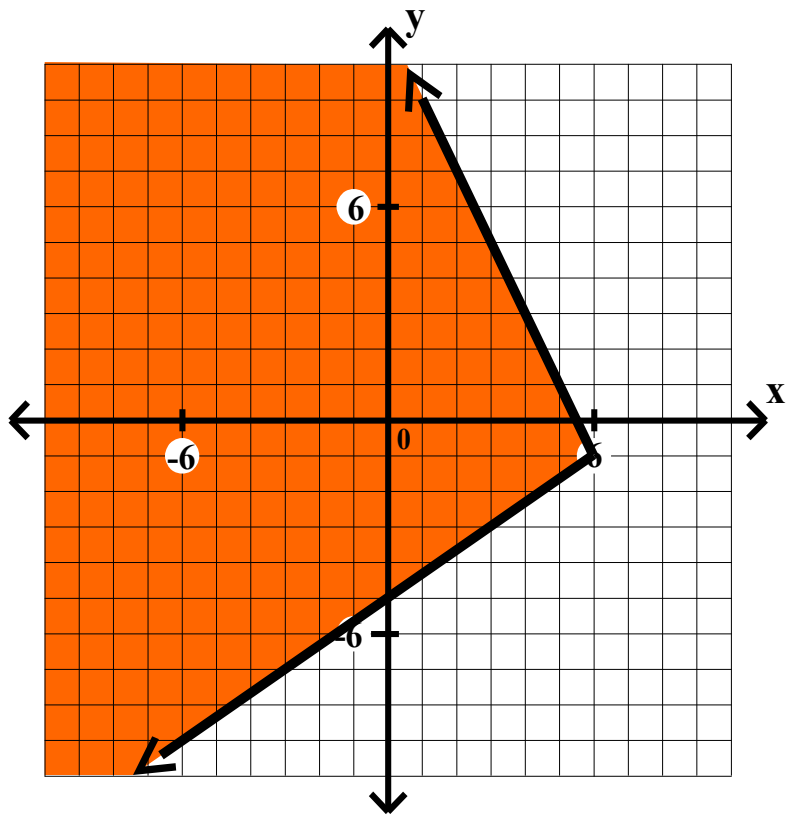
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

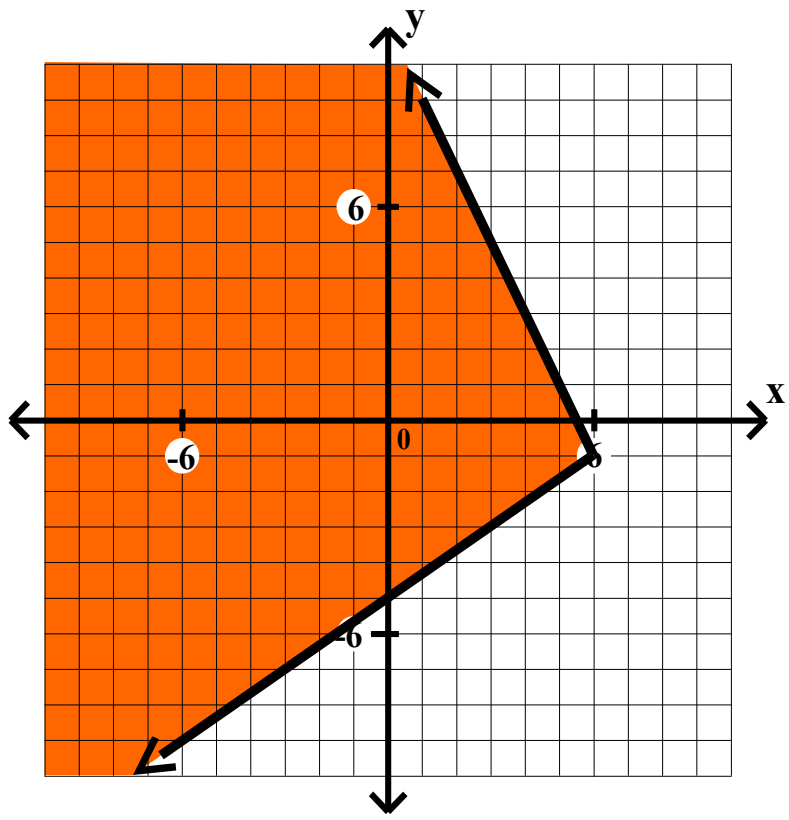
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

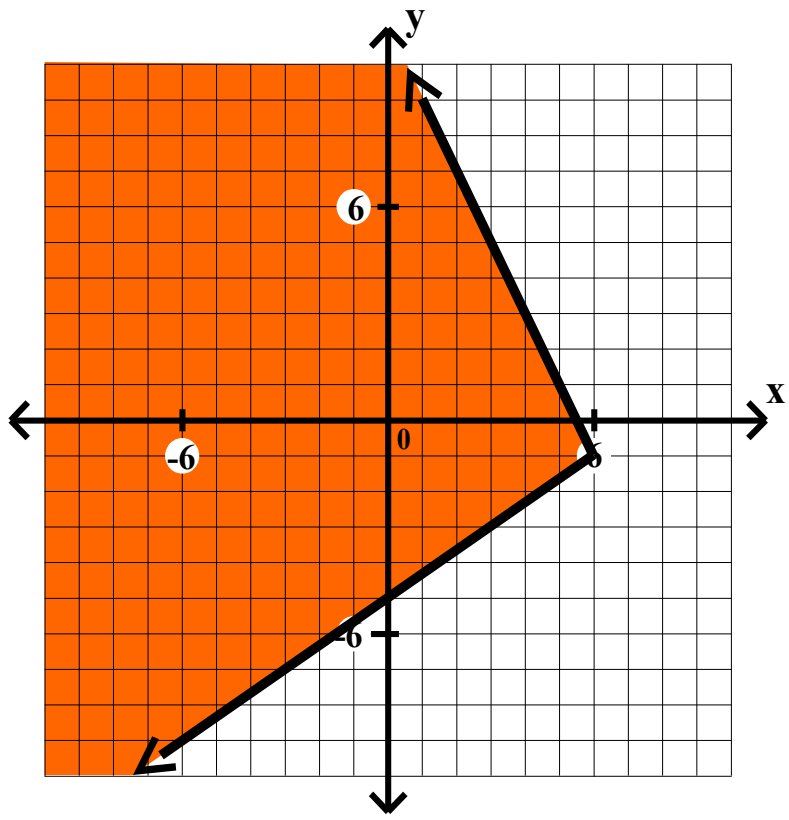
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x +$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

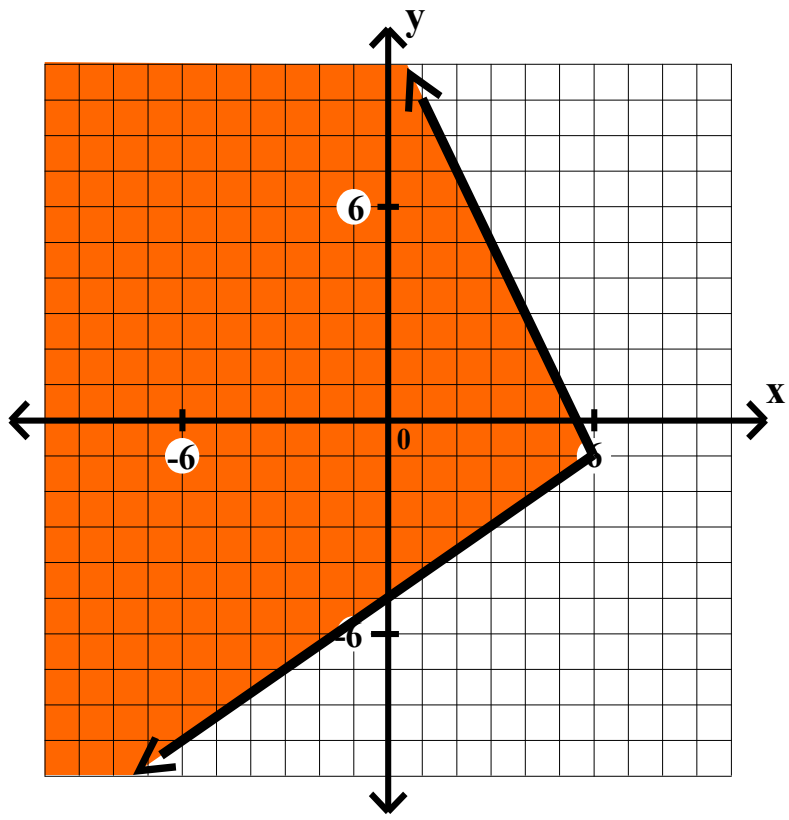
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$



Graph the intersection of the solution sets of all inequalities.

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.

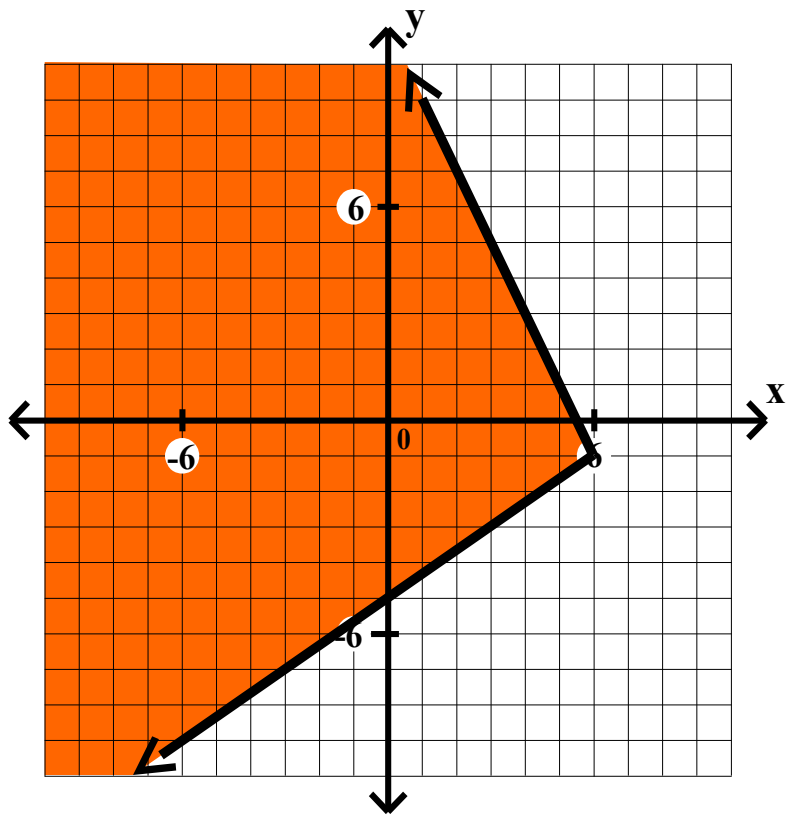
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$

y



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

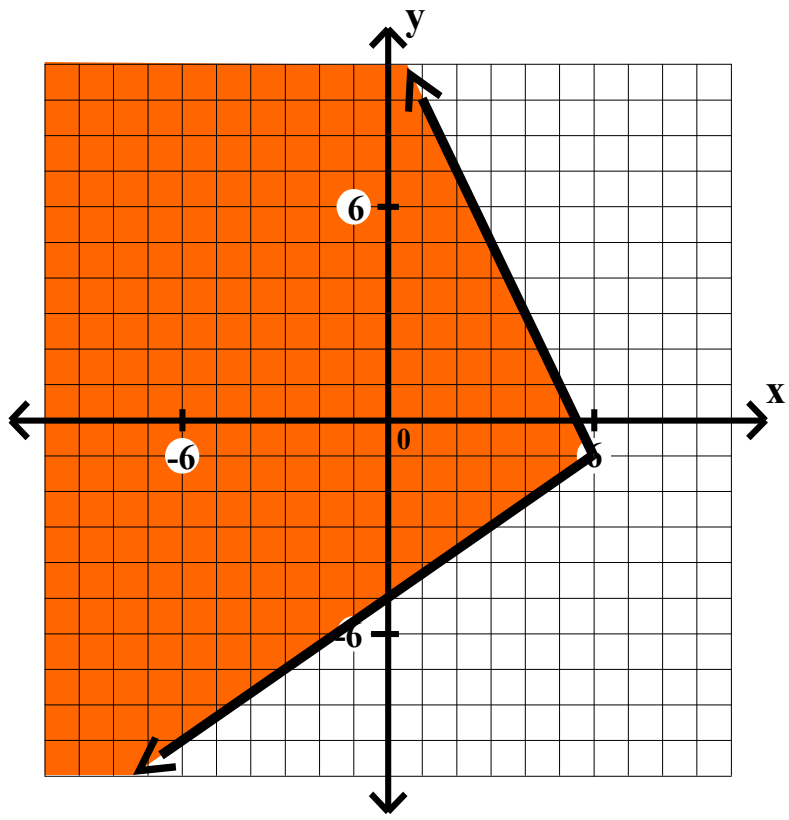
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

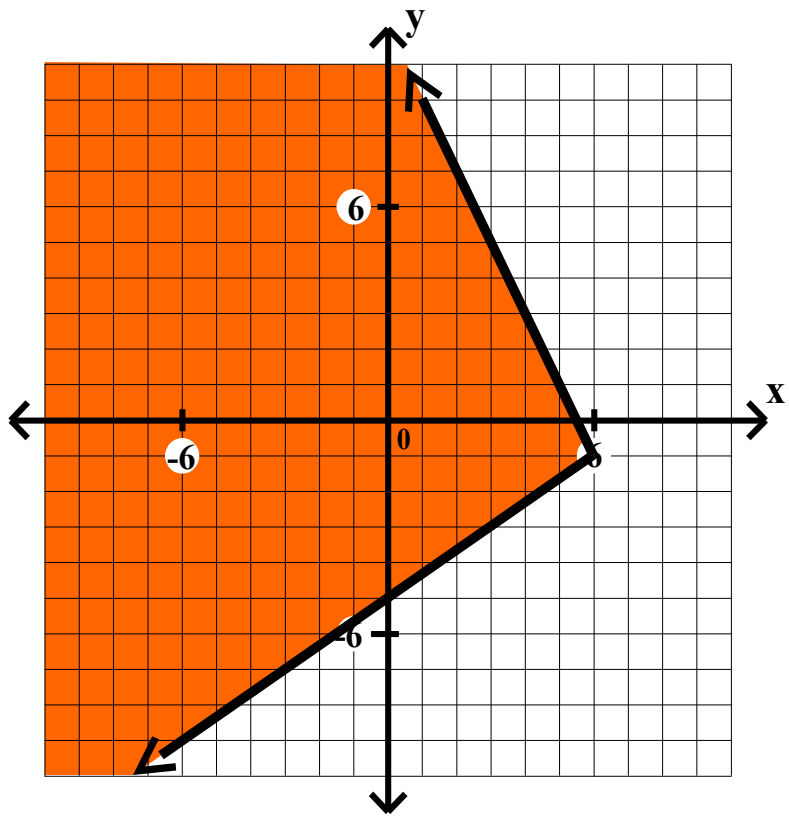
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

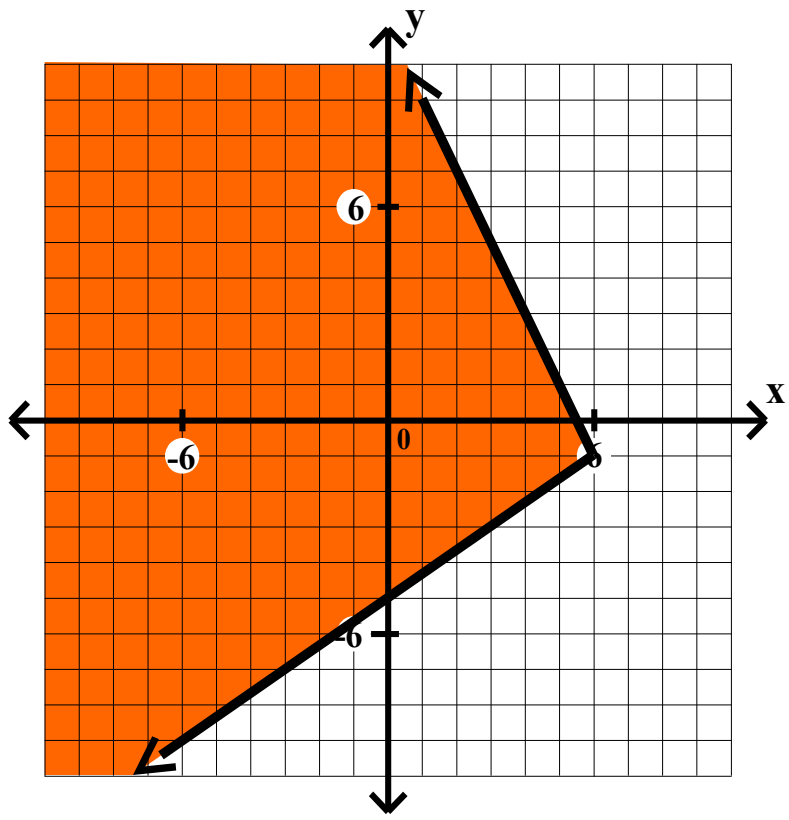
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x +$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

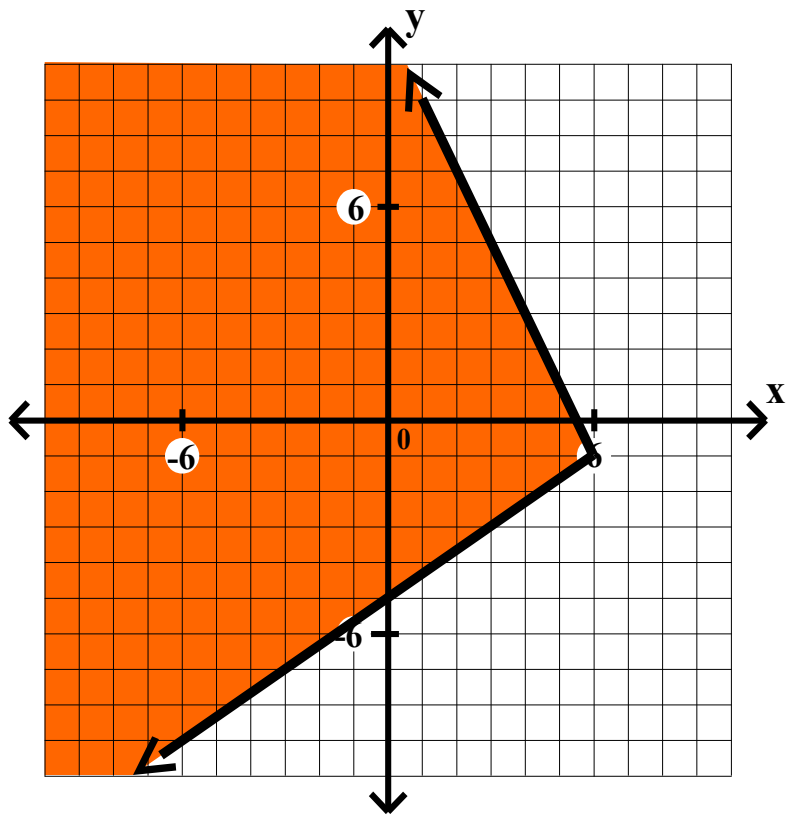
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

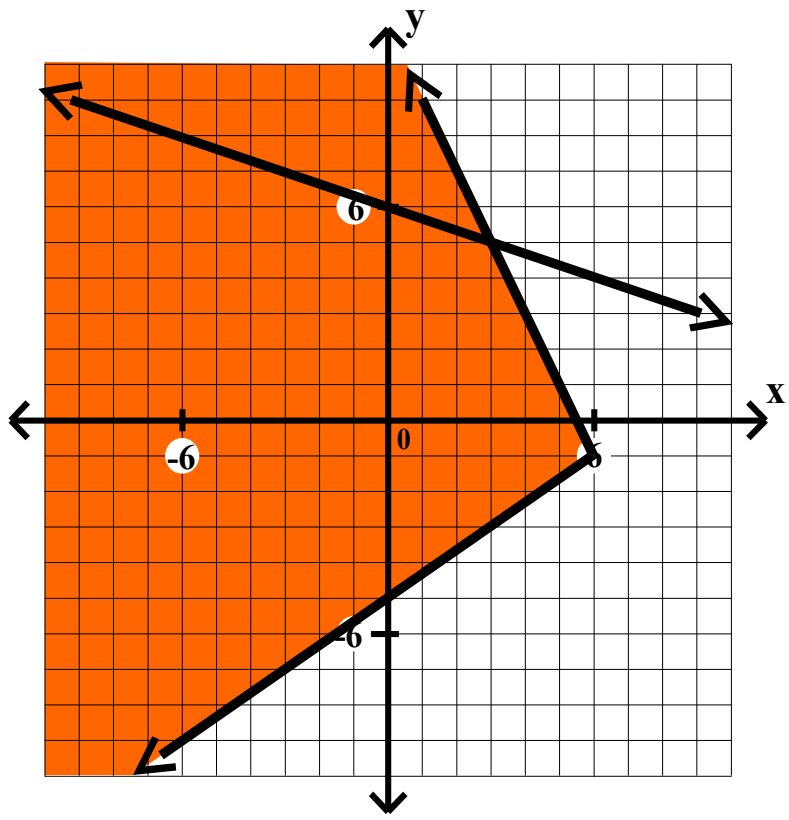
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

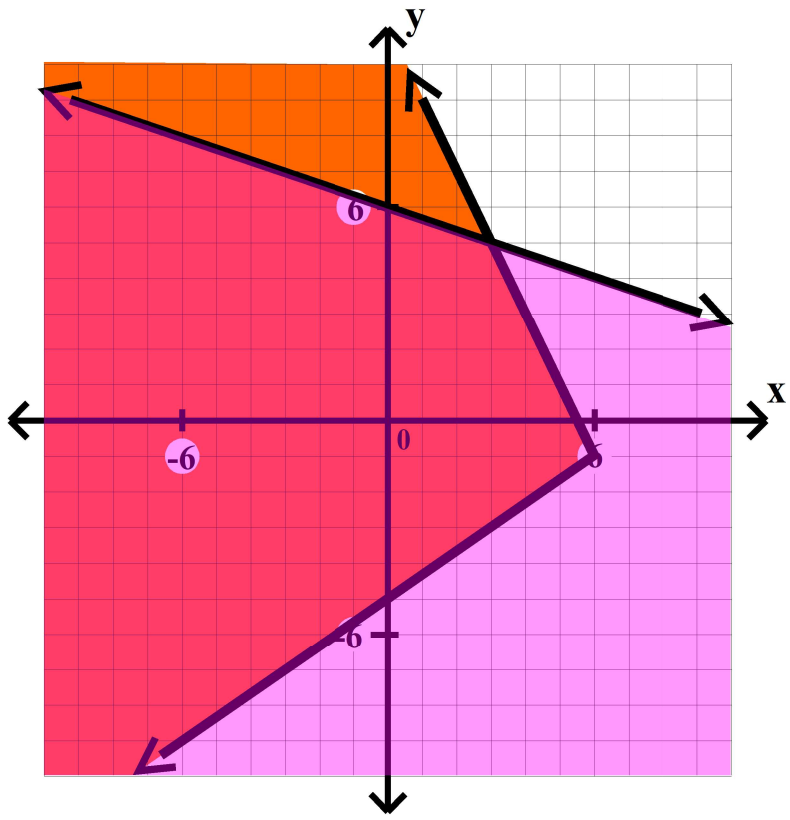
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$



Graph the <u>intersection</u> of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

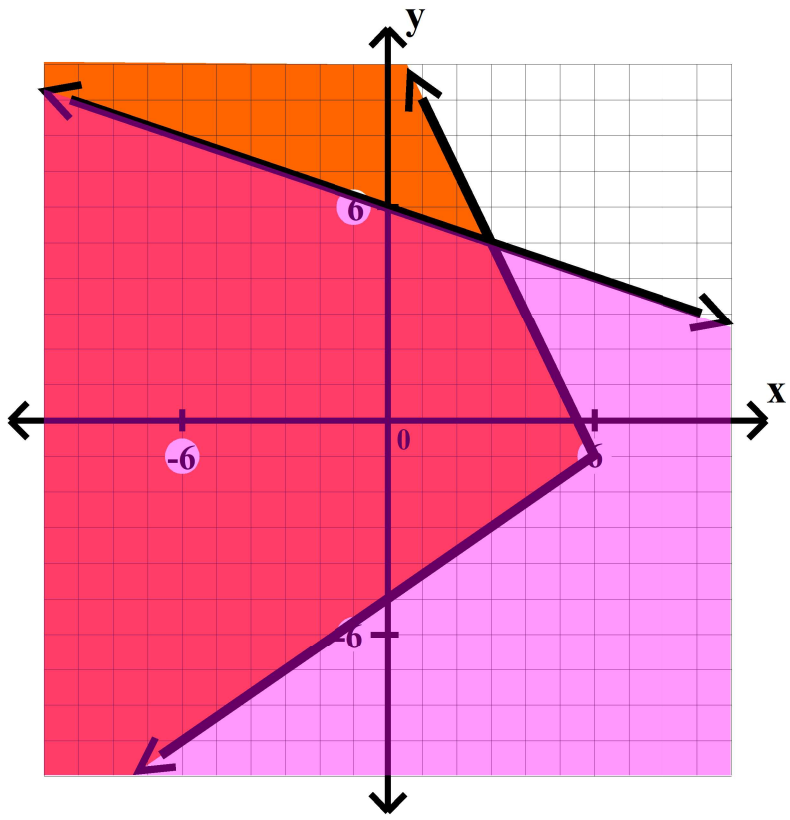
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

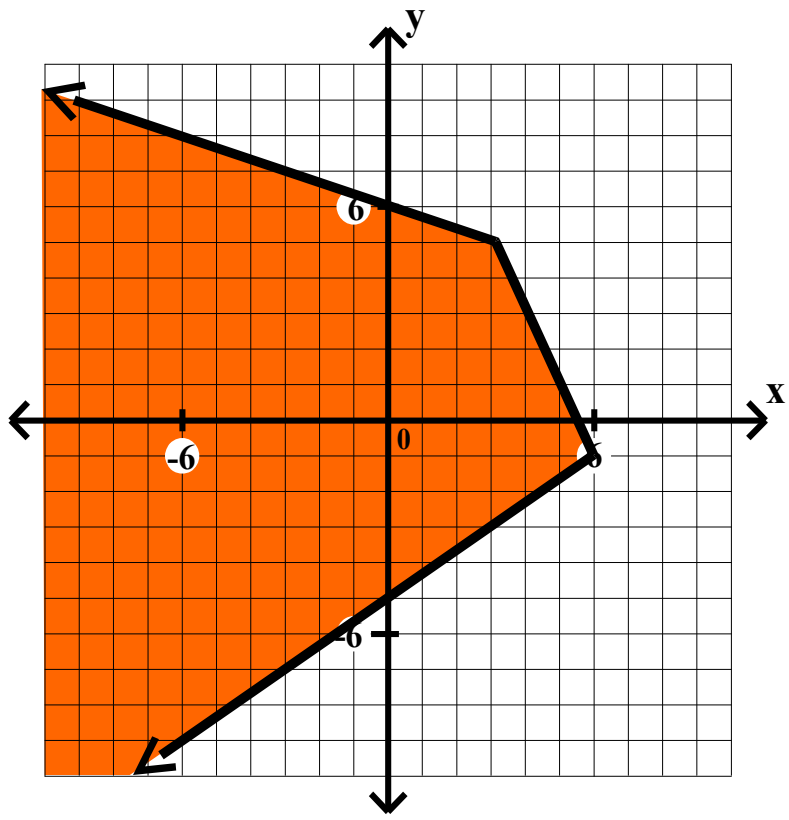
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$



Graph the intersection of the solution sets of all inequalities.

Algebra II CWS #3 Unit 4

Systems of Linear Inequalities with Two Variables

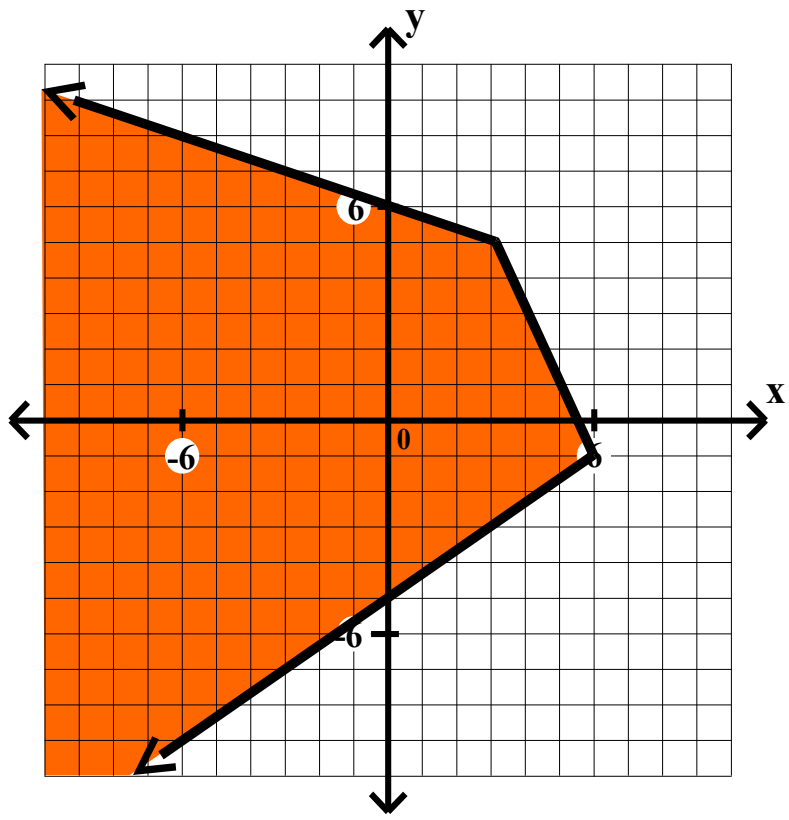
Graph each of the following systems of linear inequalities.
Find the coordinates of any vertex.

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

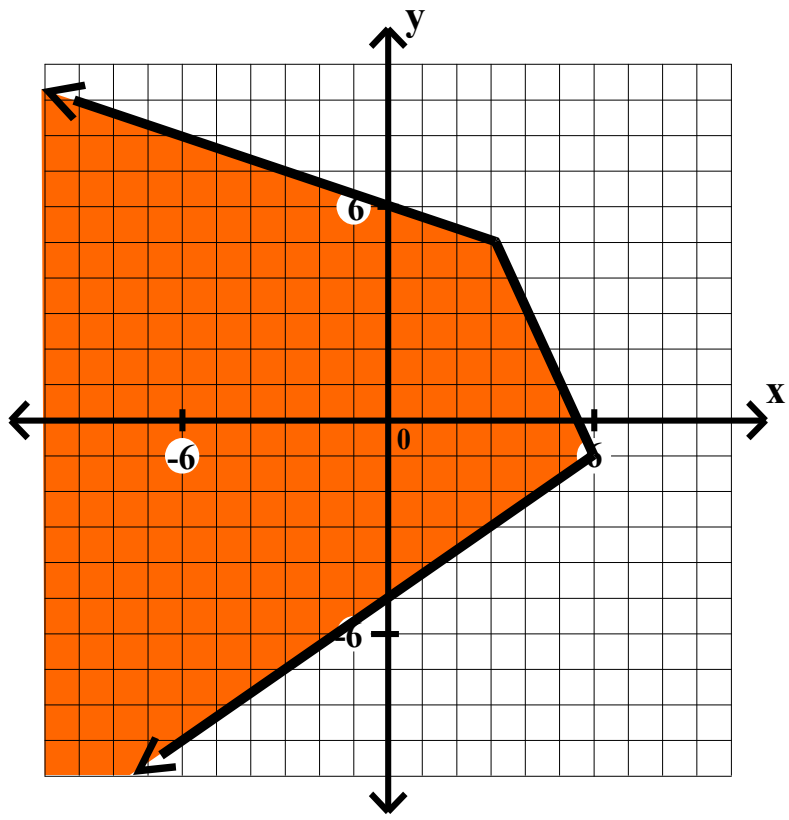
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

3y



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

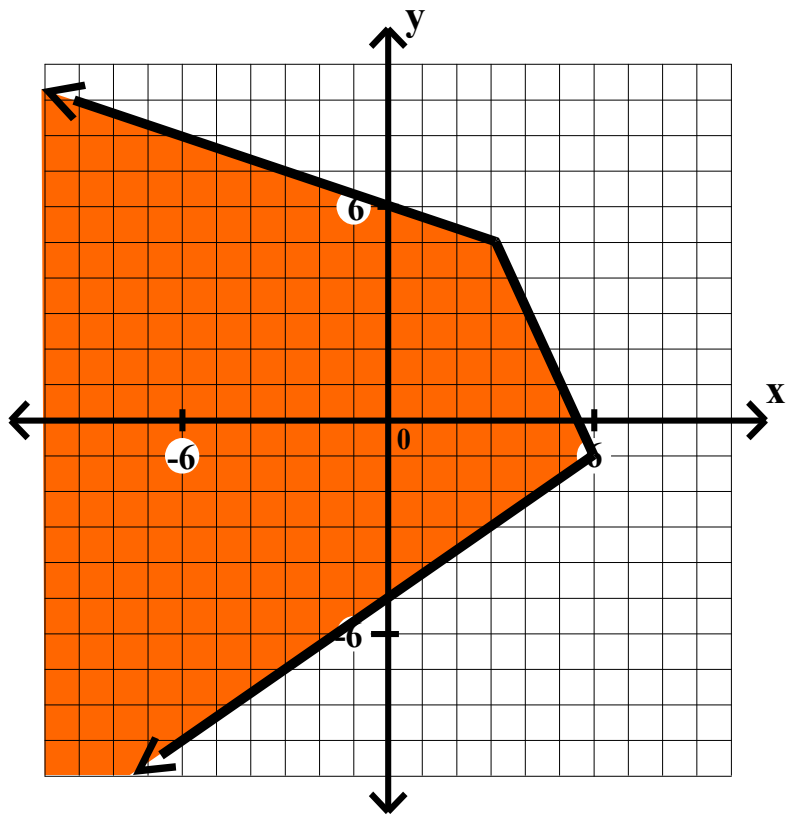
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

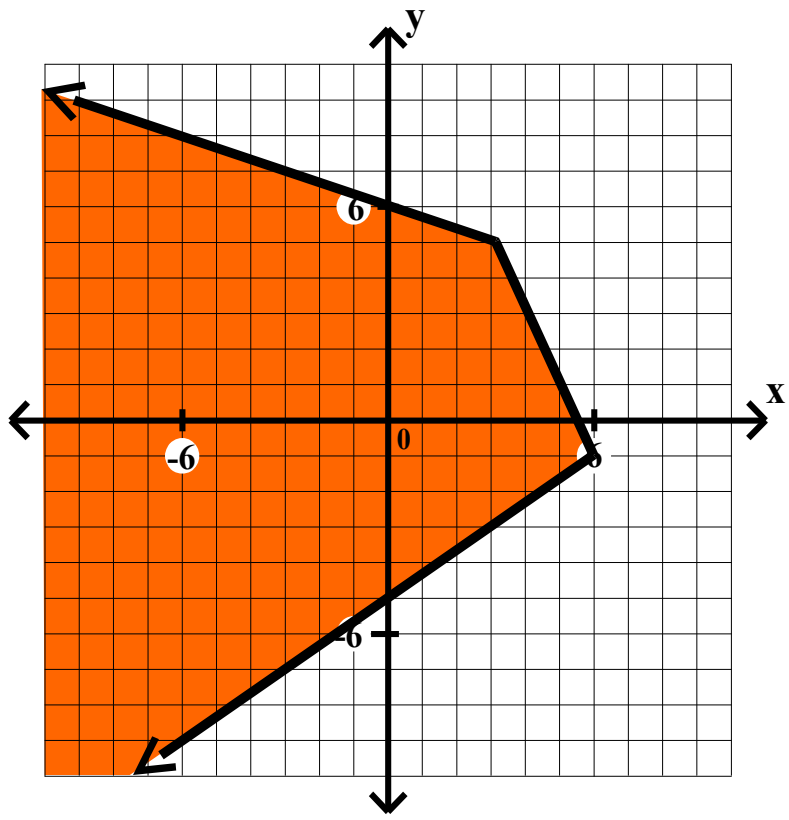
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x$



Graph the intersection of the solution sets of all inequalities.

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.

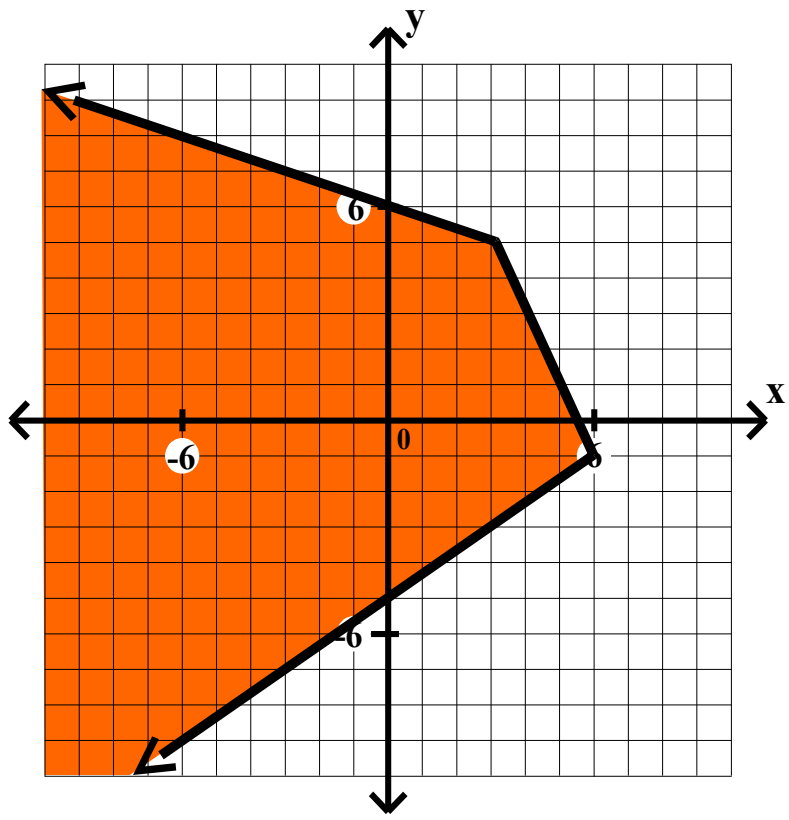
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x +$



Graph the intersection of the solution sets of all inequalities.

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.

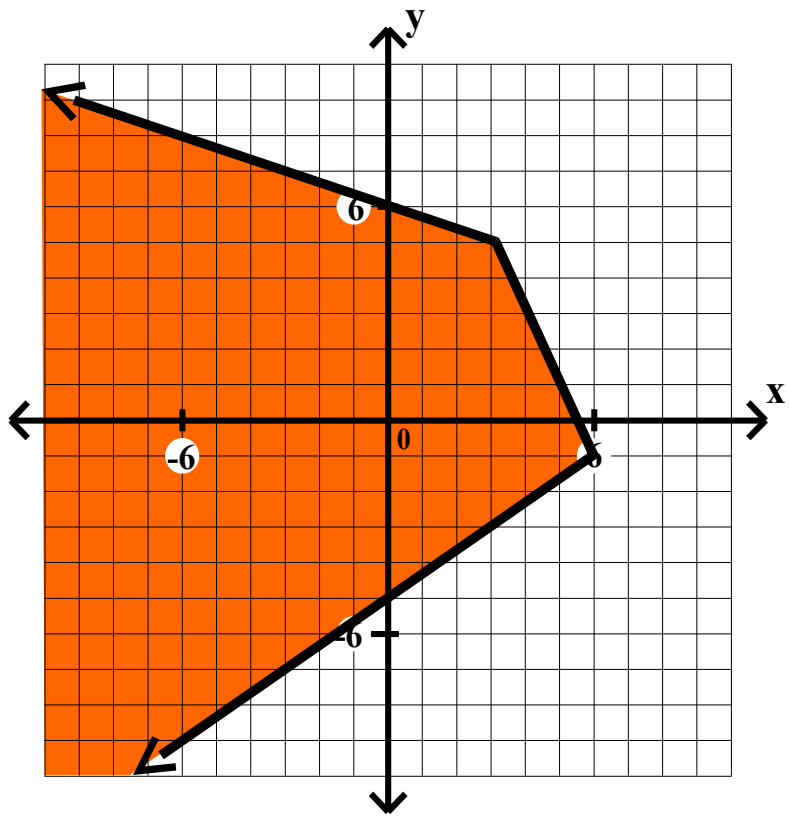
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x + 33$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

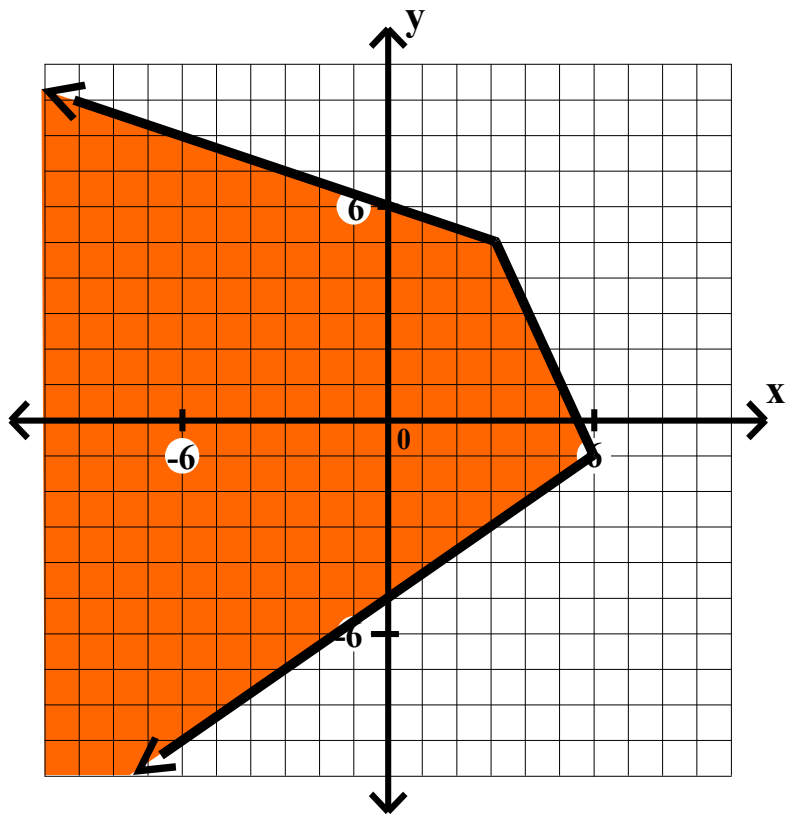
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x + 33$
y



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

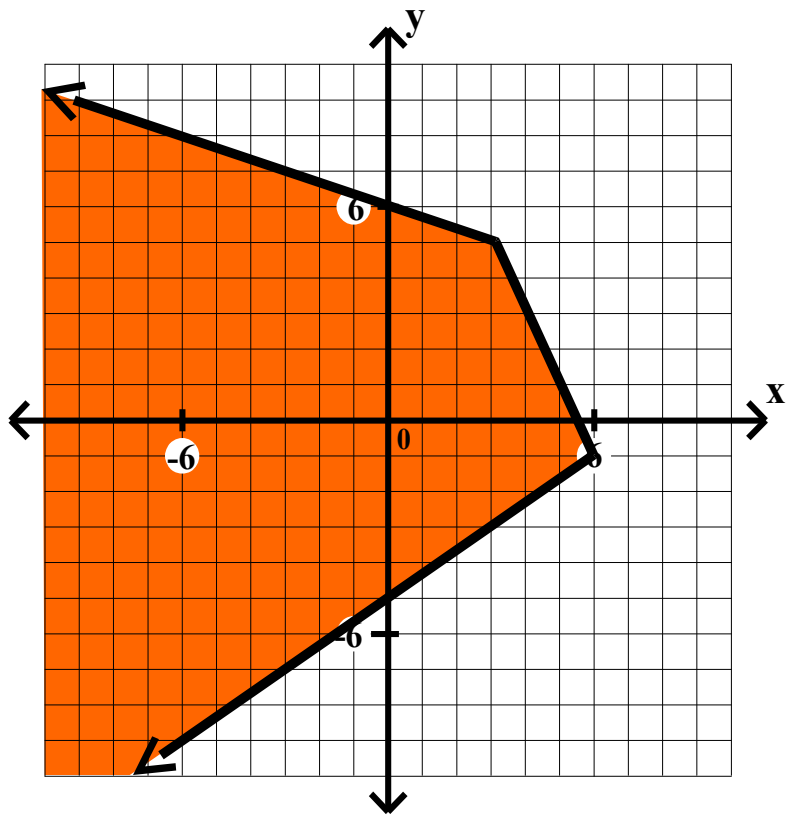
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x + 33$
$y \leq$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

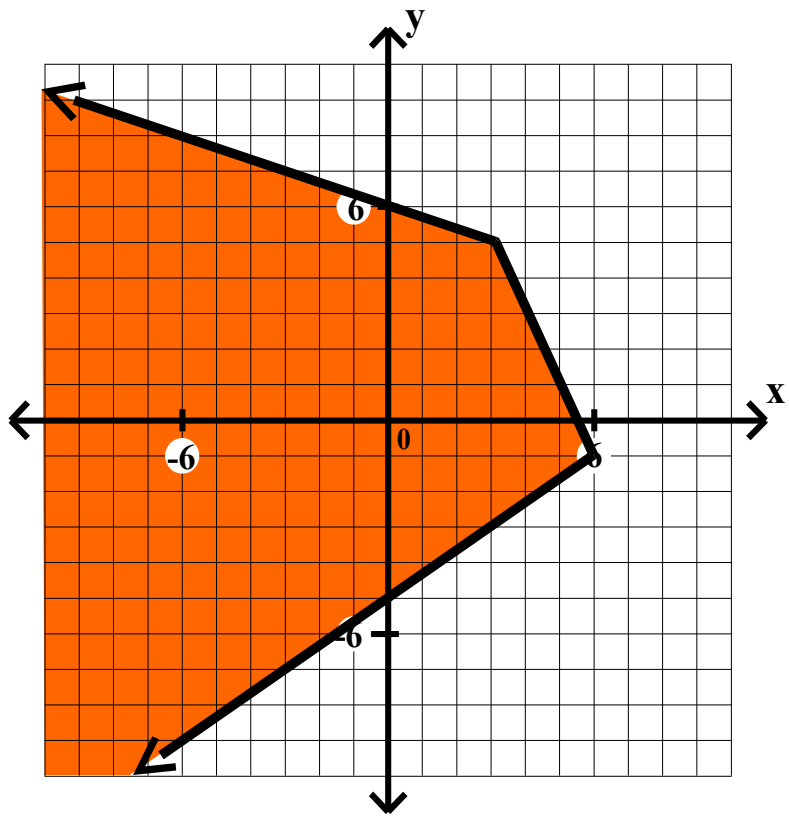
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x + 33$
$y \leq (4/3)x$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

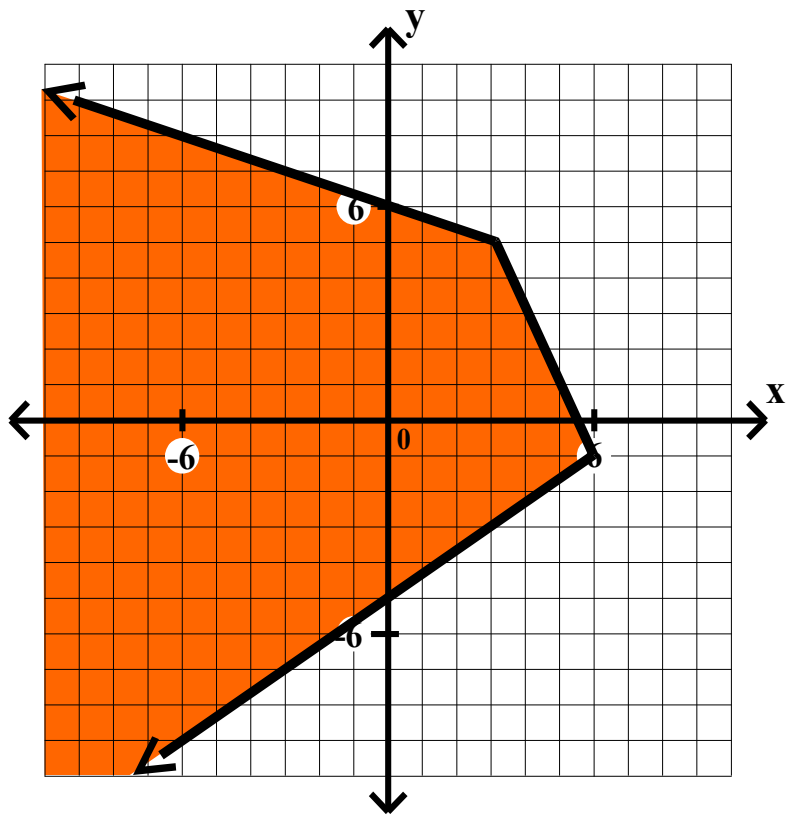
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x + 33$
$y \leq (4/3)x +$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

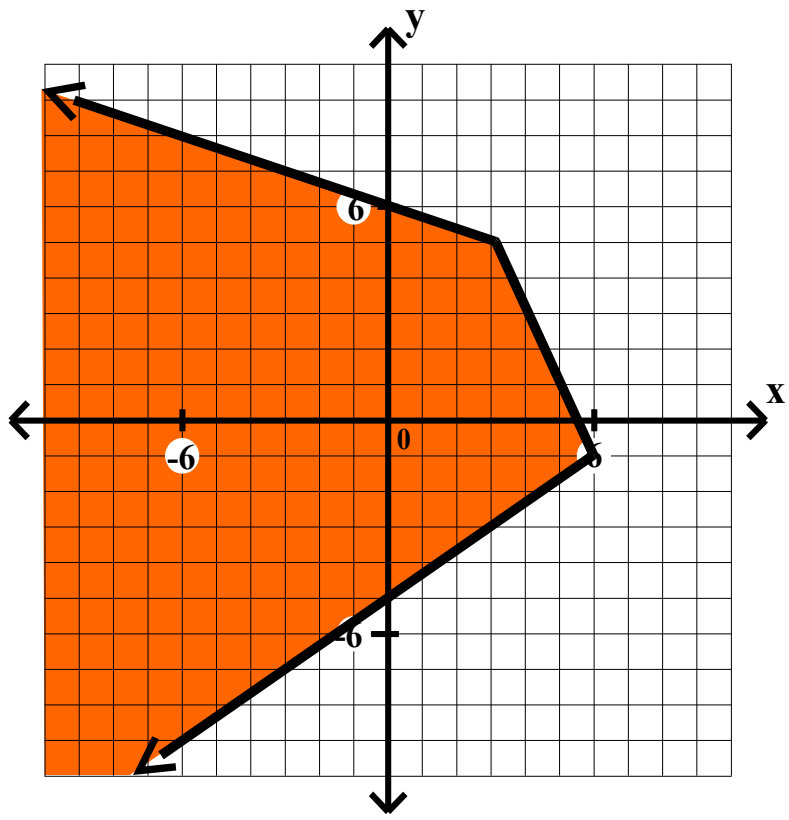
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x + 33$
$y \leq (4/3)x + 11$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

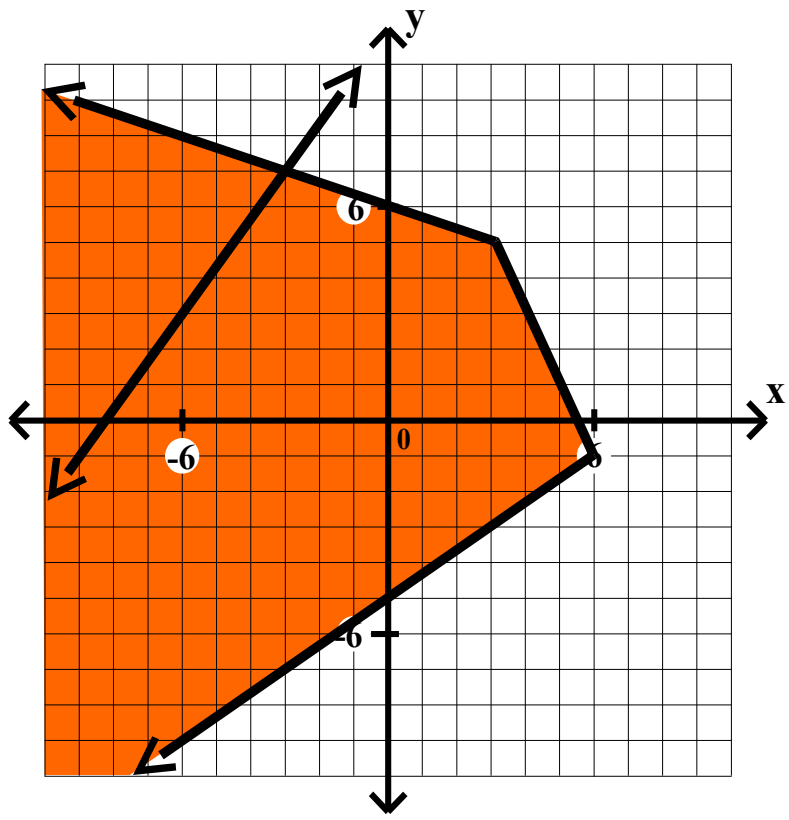
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x + 33$
$y \leq (4/3)x + 11$



Graph the intersection of the solution sets of all inequalities.

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.

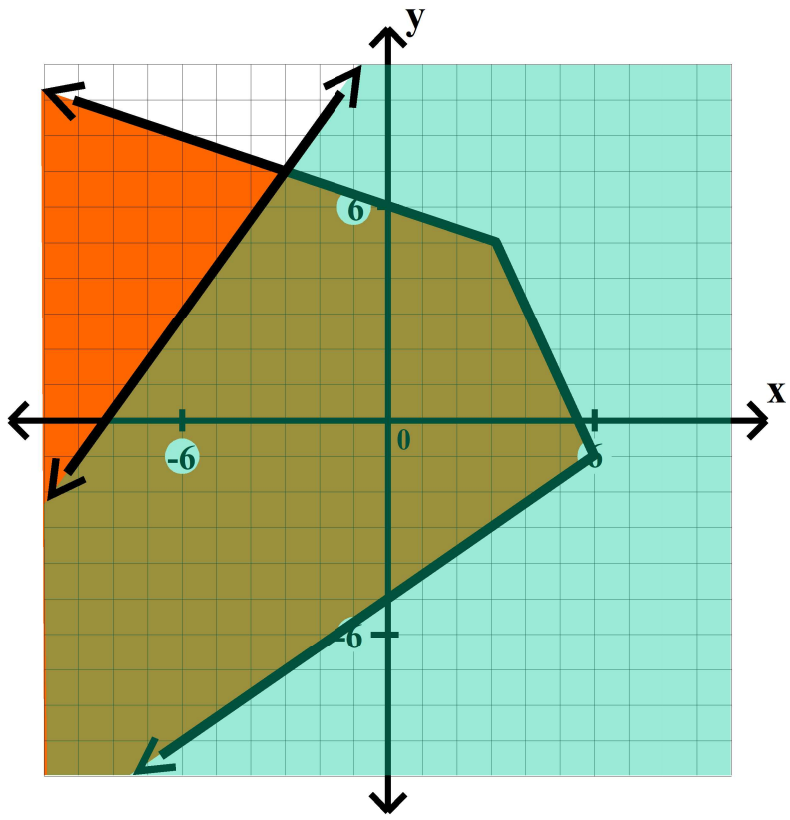
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x + 33$
$y \leq (4/3)x + 11$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

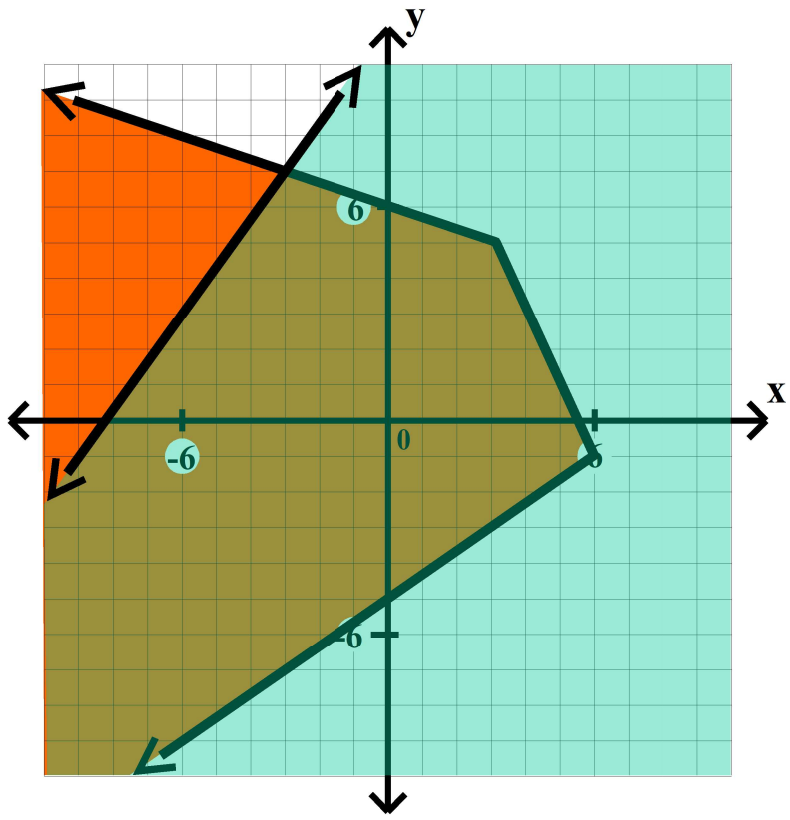
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x + 33$
$y \leq (4/3)x + 11$



Graph the intersection of the solution sets of all inequalities.

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.

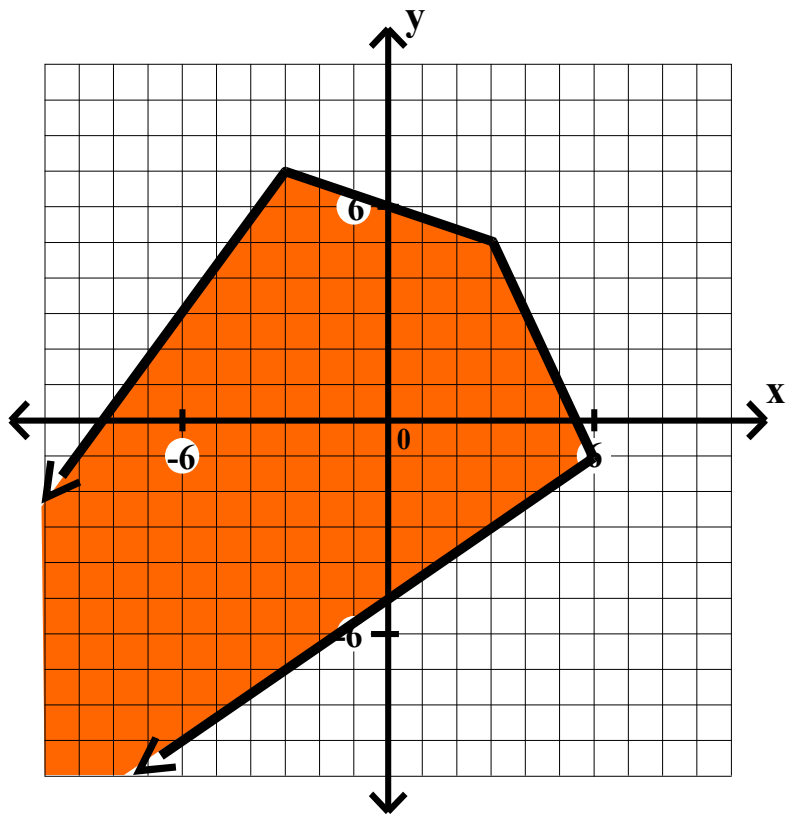
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x + 33$
$y \leq (4/3)x + 11$



Graph the intersection of the solution sets of all inequalities.

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.

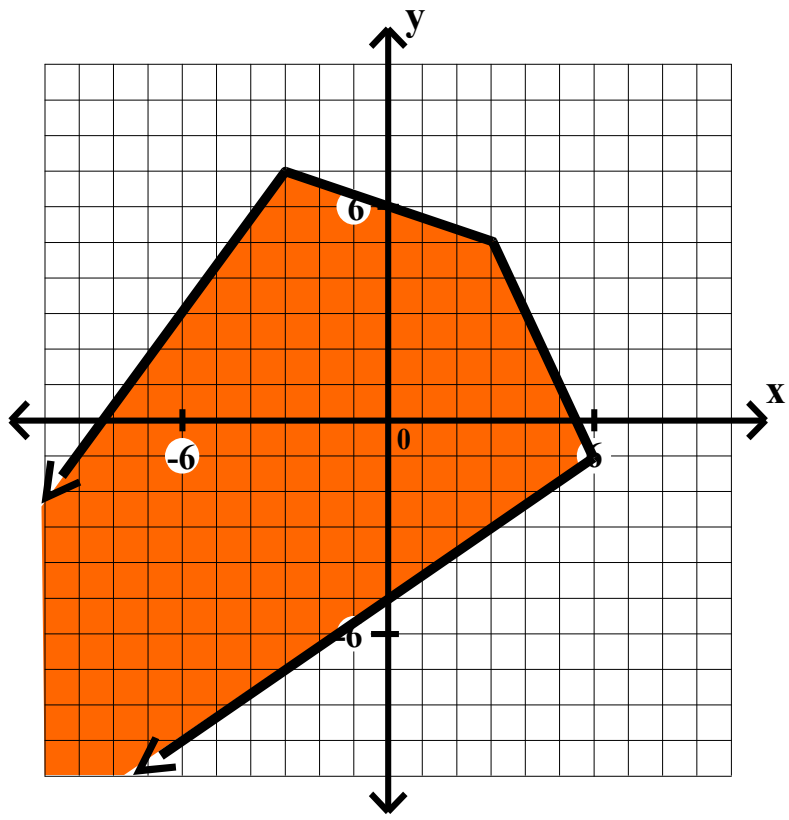
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x + 33$
$y \leq (4/3)x + 11$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

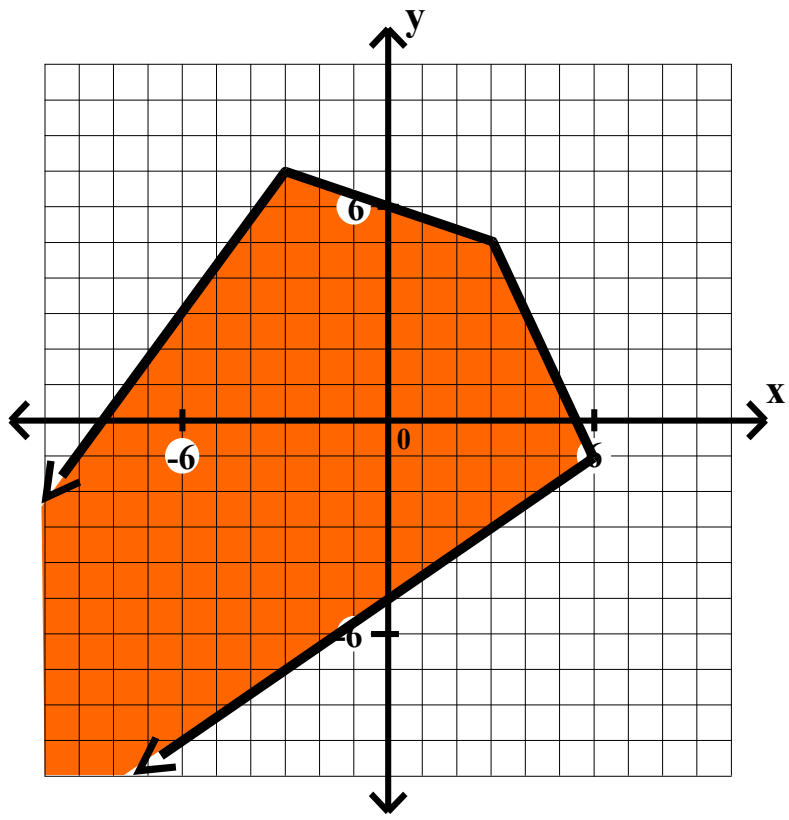
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$
y

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x + 33$
$y \leq (4/3)x + 11$



Graph the intersection of the solution sets of all inequalities.

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.

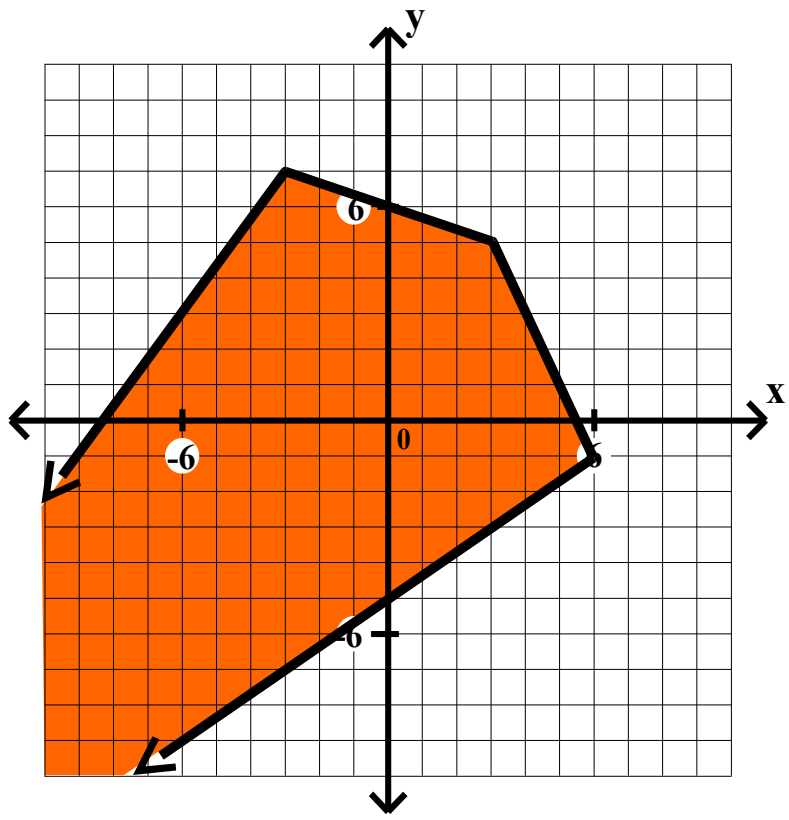
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$
$y \geq$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x + 33$
$y \leq (4/3)x + 11$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

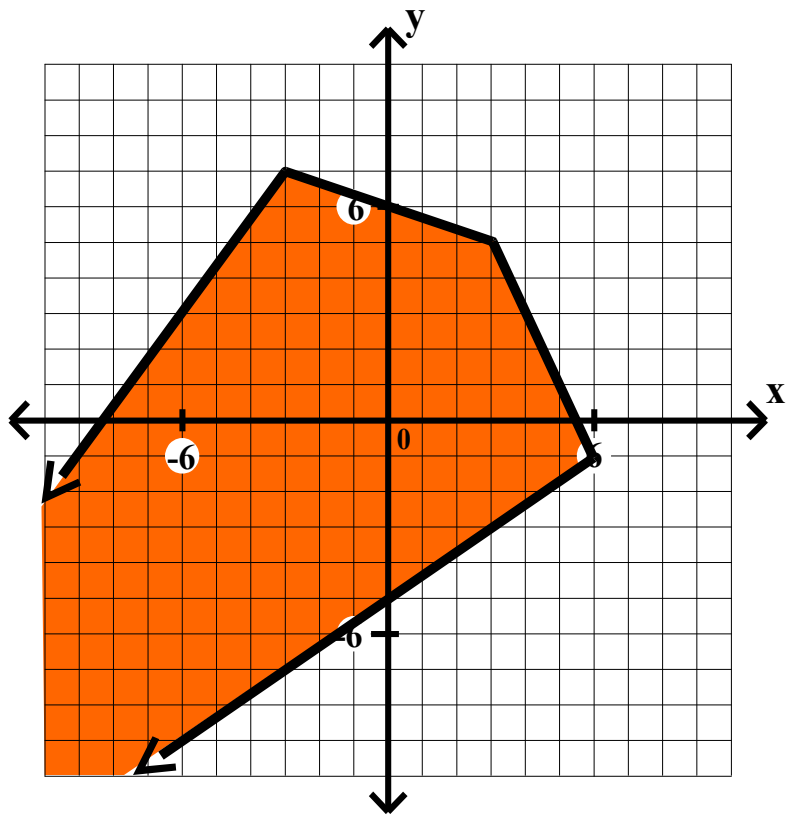
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$
$y \geq -x$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x + 33$
$y \leq (4/3)x + 11$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

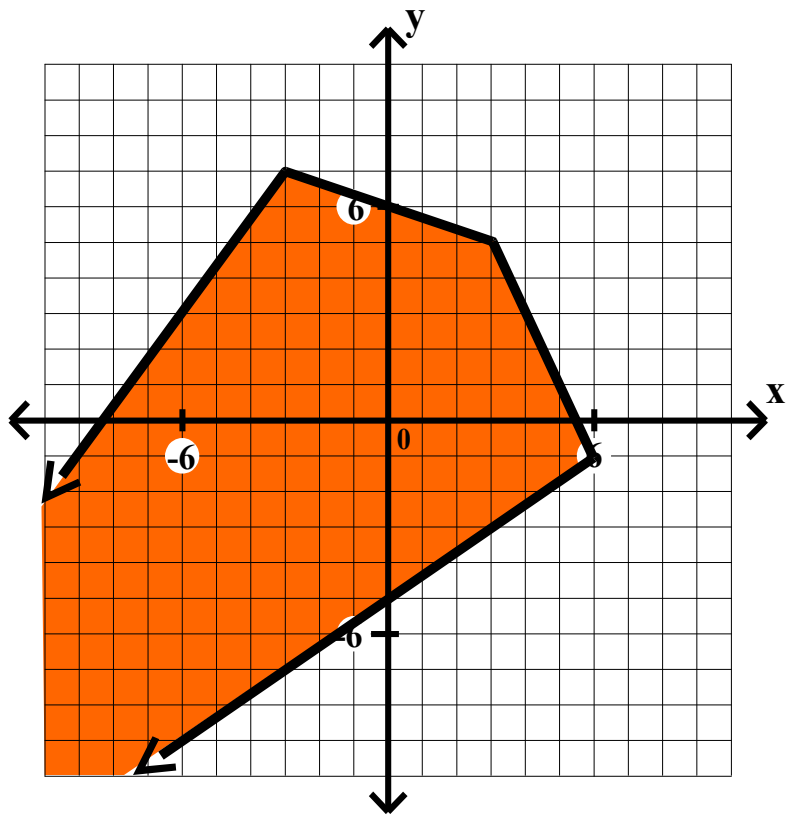
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$
$y \geq -x -$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x + 33$
$y \leq (4/3)x + 11$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

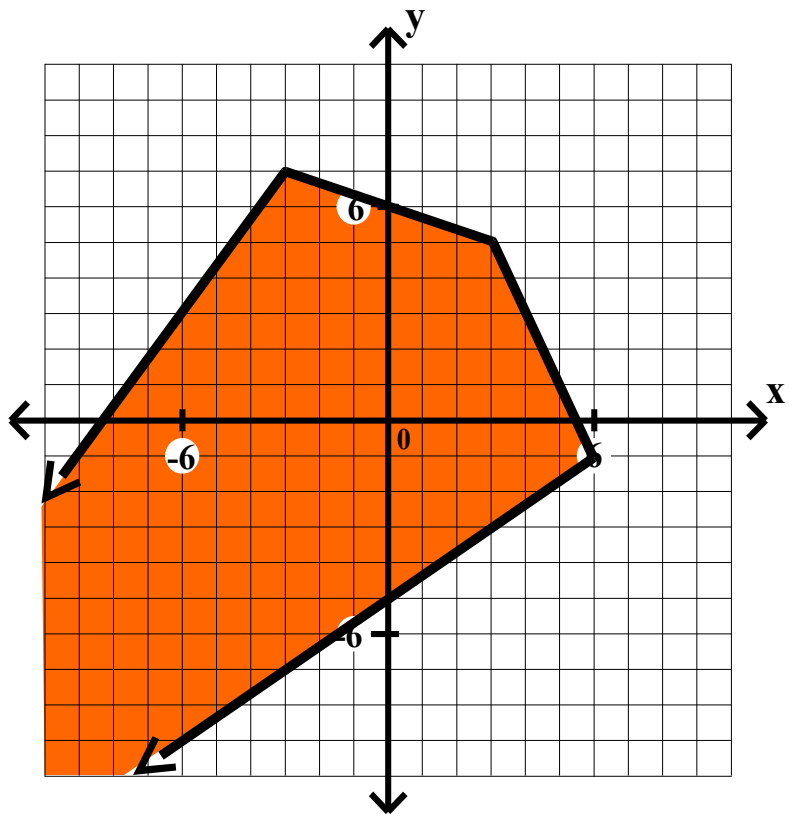
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$
$y \geq -x - 10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x + 33$
$y \leq (4/3)x + 11$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

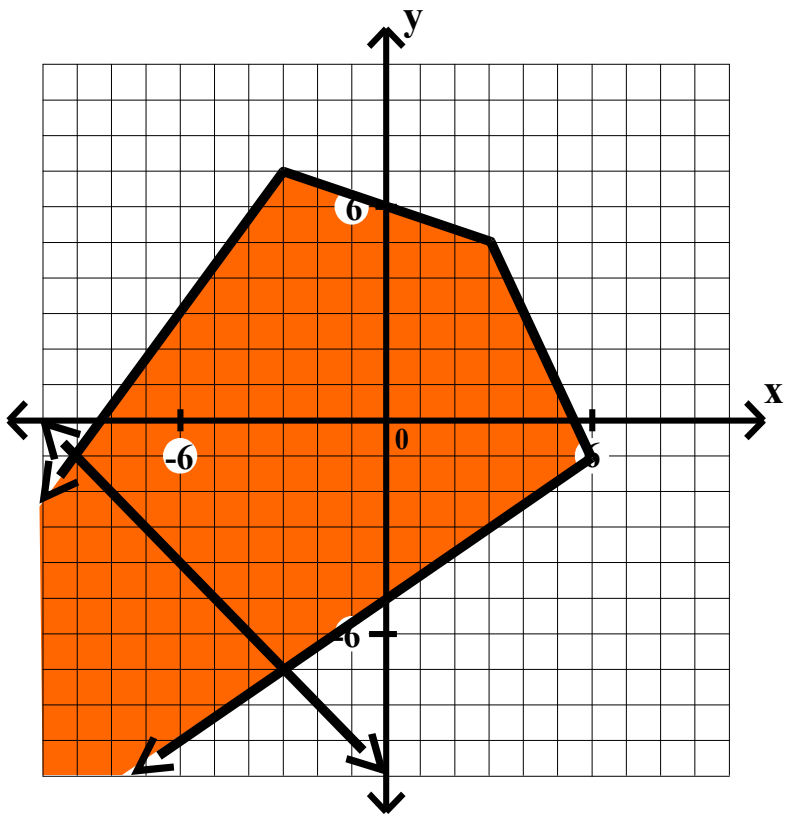
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$
$y \geq -x - 10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x + 33$
$y \leq (4/3)x + 11$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

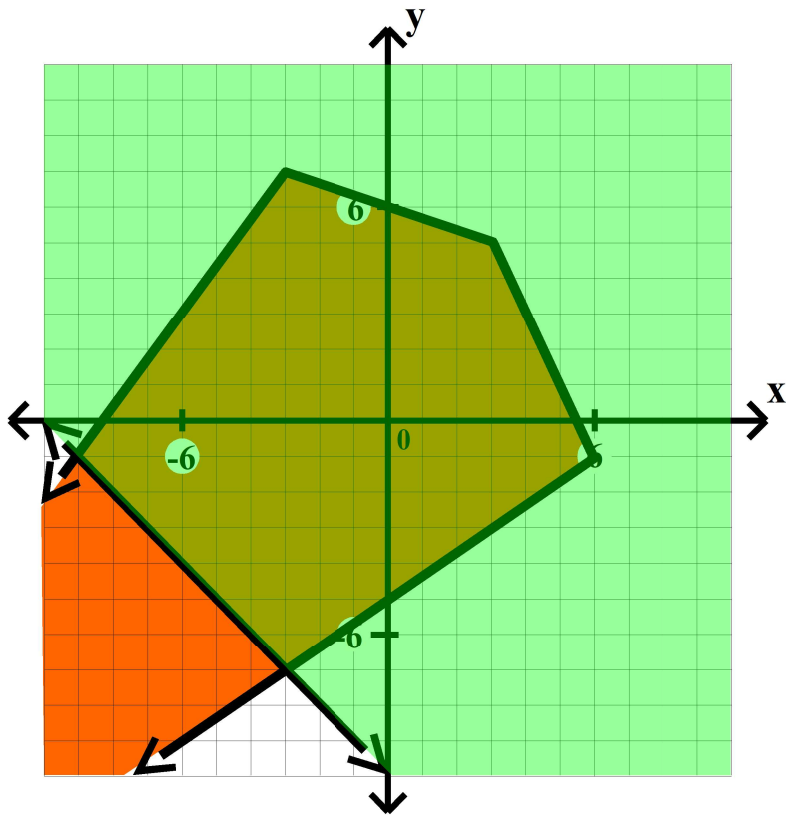
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$
$y \geq -x - 10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x + 33$
$y \leq (4/3)x + 11$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

3.

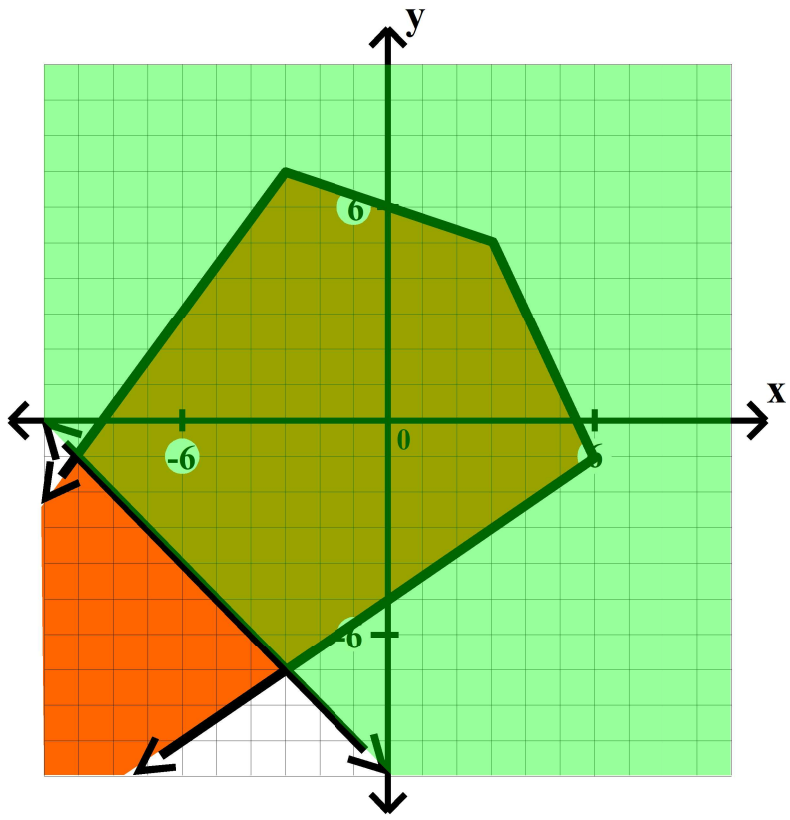
$2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$
$y \geq -x - 10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x + 33$
$y \leq (4/3)x + 11$



Graph the intersection of the solution sets of all inequalities.

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.

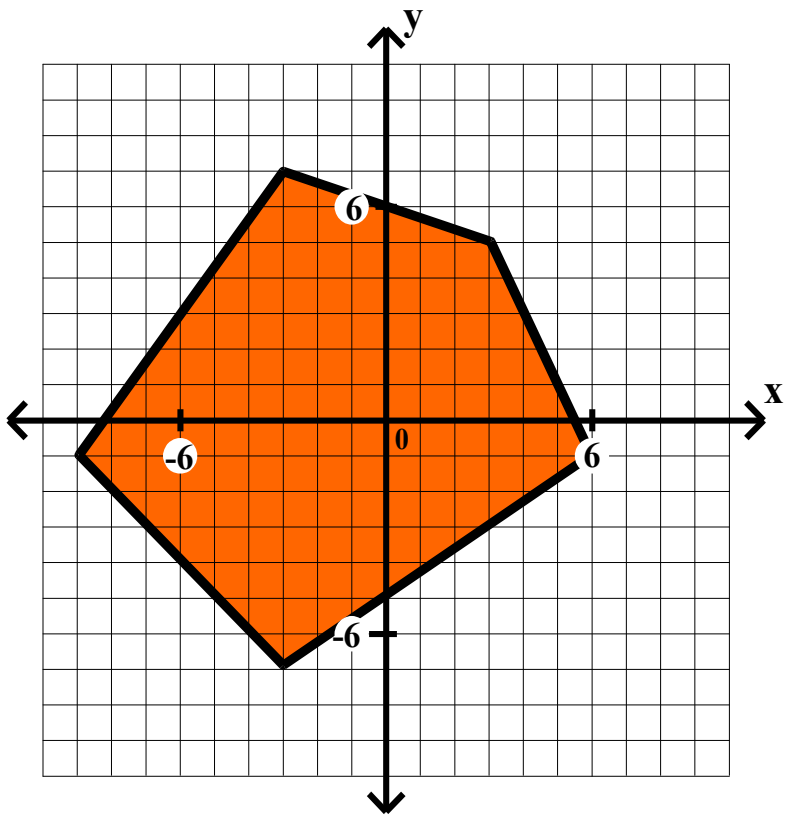
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$
$y \geq -x - 10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x + 33$
$y \leq (4/3)x + 11$



Graph the intersection of the solution sets of all inequalities.

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.

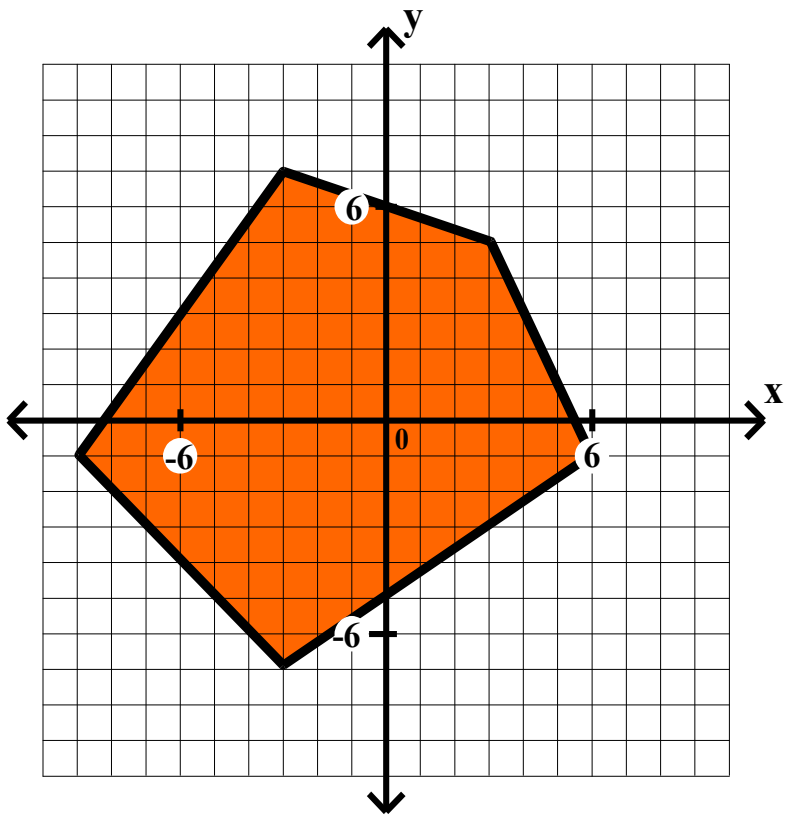
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$
$y \geq -x - 10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x + 33$
$y \leq (4/3)x + 11$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

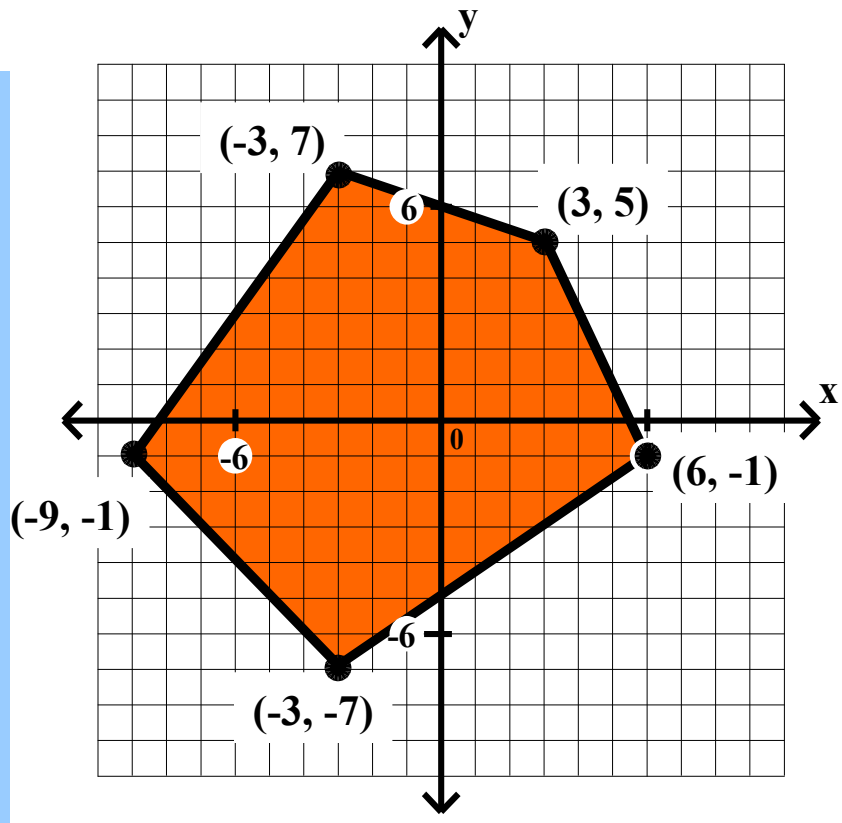
3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$
$y \geq -x - 10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x + 33$
$y \leq (4/3)x + 11$



Graph the <u>intersection</u> of the solution sets of all inequalities.

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.

3. $2x - 3y \leq 15$
$2x + y \leq 11$
$x + 3y \leq 18$
$-4x + 3y \leq 33$
$x + y \geq -10$

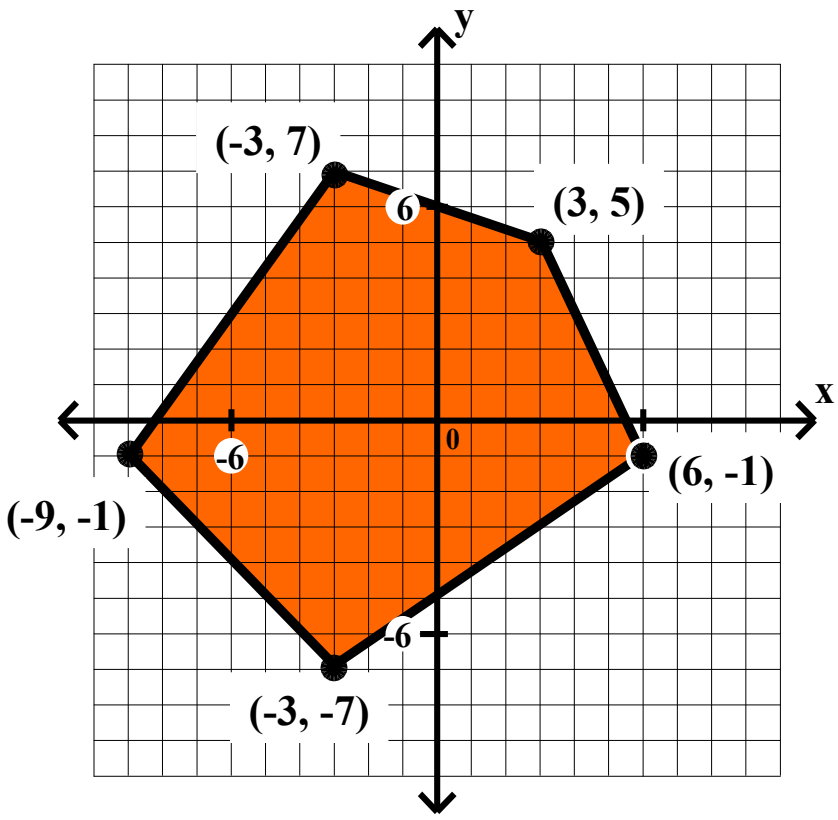
$y \geq -x - 10$

$-3y \leq -2x + 15$
$y \geq (2/3)x - 5$

$y \leq -2x + 11$

$3y \leq -x + 18$
$y \leq (-1/3)x + 6$

$3y \leq 4x + 33$
$y \leq (4/3)x + 11$



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.

3. $2x - 3y \leq 15$

$x + y \geq -10$

$y \geq -x - 10$

$-3y \leq -2x + 15$

$3y \leq -x + 18$

$y \leq (-1/3)x + 6$

$3y \leq 4x + 33$

$y \leq (4/3)x + 11$

Good luck on worksheet #3.