Assignment 23

1. Find the slope between the two points:
   $(2,-1)$; $(6,-3)$

2. Find the equation of the line between the two points:
   $(4,-4)$; $(2,-5)$

3. Find the slope between the two points:
   $(6,1)$; $(-3,7)$

4. Find the equation of the line between the two points:
   $(-2,-4)$; $(2,8)$

Perpendicular Practice

1. Write the equation of the line that is perpendicular to $y=-\frac{3}{2}x+5$ and and passes through the point $(-6,-1)$.

2. Write the equation of the line that is perpendicular to $y=x-2$ and and passes through the point $(5,-2)$.

3. Write the equation of the line that is perpendicular to $y=-2x$ and and passes through the point $(-4,-3)$.

4. Write the equation of the line that is perpendicular to $y=\frac{1}{3}x+1$ and and passes through the point $(6,-10)$.

Name: _____

Line Practice

1.
What is the slope of the line represented by the equation: $2x-3y=10$

2.
Write the equation $-3x-6y=30$ in slope intercept form.

3.
Find the slope of the line that contains $(3,3)$ and $(8,-10)$

4.
What is the slope of the line represented by the equation: $x-2y=-6$

5.
Write the equation $4x+2y=20$ in slope intercept form.

6.
Find the slope of the line that contains $(-4,6)$ and $(5,-9)$

Test 5 Practice

1. Write the equation of the line that has a slope of 2 and and passes through the point $(-3,-1)$.

2. Write the equation of the line that is parallel to $y=\frac{1}{2}x+5$ and and passes through the point $(-6,-1)$.

3. Write the equation of the line that is perependicular to $y=-\frac{3}{4}x+6$ and and passes through the point $(9,-1)$.

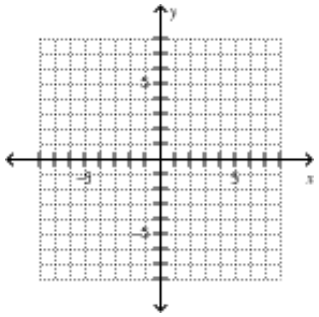
4. Write the equation of the line that passes through the points $(3,7)$ and $(-1,3)$.

Graph each set of inequalities watch your shading.

1.

$y>4$

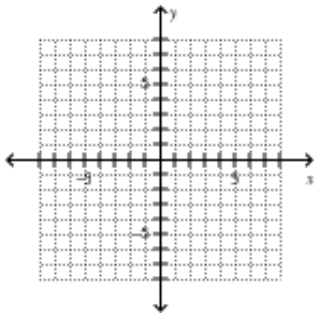
$y\le\frac{3}{2}x-1$



2.

$x+y<3$

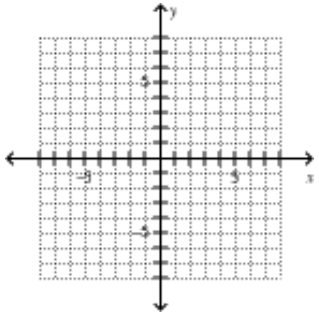
$3x-2y\le 6$



3.

$y>2x$

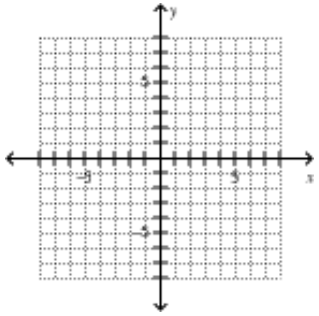
$x>-2$



4.

$y>\frac{1}{2}x-5$

$x-4y>-8$



Final Exam Review

1. Solve for x: $-\frac{3}{5}x=15$

2. Solve for x: $3x-20+x=12-4x$

3. Solve the inequality: $\frac{x}{-3}>10$

4.

Write the equation in slope intercept form: $x+3y=12$

5. Find the slope of the line represented by $2x-4y=20$

6. Graph the following compound inequality:

$x>7$ and $x>-4$