Assignment 22

Find the slope of the following pairs of points using the slope formula: $m = \dfrac{y_2 - y_1}{x_2 - x_1}$.

1. $(-1,2)$; $(-5,6)$

2. $(2,-3)$; $(-6,3)$

3. $(-3,-5)$; $(0,-5)$

4. $(-5,2)$; $(-9,-4)$

5. $(2,-3)$; $(2,4)$

6. $(3,0)$; $(0,6)$

Write the equation of each line in **slope intercept form** through the given point with the given slope.

1. $(-1,3)$; $m = 2$

2. $(4,-3)$; $m = -\dfrac{1}{2}$

3. $(0,-1)$; $m = \dfrac{3}{5}$

4. $(-2,5)$; $m = -1$

Name: _____

Write the equation of each line in **slope intercept form** that passes through the two given points

1. $(-3,1)$; $(6,7)$

2. $(7,1)$; $(2,-4)$

3. $(-4,-5)$; $(8,-2)$

4. $(6,-7)$; $(-3,5)$

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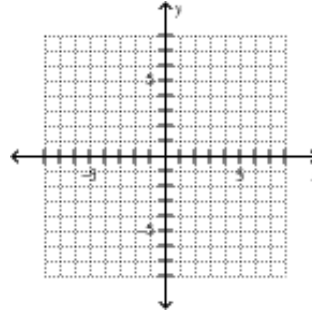
2. Write the equation of the line that is parallel to $y=-\dfrac{3}{2}x+5$ and and passes through the point $(-6,-1)$.

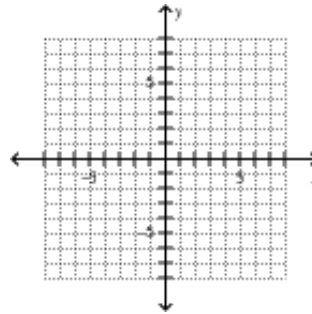3. Write the equation of the line that passes through the points $(-3,5)$ and $(-1,-1)$.

4. Write the equation of the line that is parallel to $y=\dfrac{2}{5}x-6$ and and passes through the point $(-5,7)$.

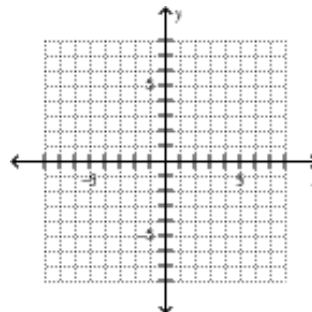**Graph each set of inequalities watch your shading.**
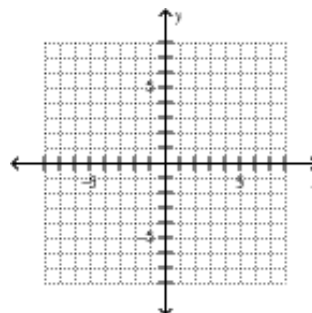
1.

$y>-5$

$y<\dfrac{1}{2}x-5$

2.

$y<x+3$

$y\le x-2$

3.

$y\ge -4x$

$x<4$

4.

$y\le 2x+1$

$y\ge 2x-3$

Final Exam Review

1. Solve for x: $\dfrac{2}{3}x=30$

2. Solve for x: $3x+18-x=6-4x$

3. Solve the inequality: $\dfrac{x}{-4}\le 6$

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

5. Find the slope of the line represented by $x-3y=15$

6. Graph the following compound inequality:

   $x>9$ or $x\le -1$