

Assignment 21

Find the slope of the following pairs of points

using the slope formula: $m = \frac{y_2 - y_1}{x_2 - x_1}$.

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

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

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 passes through the point $(3, -2)$.

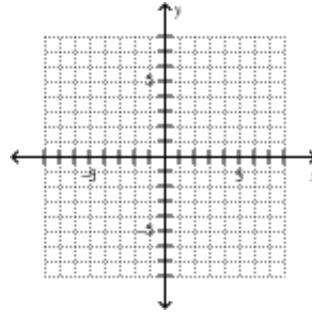
2. Write the equation of the line that is parallel to $y = -\frac{3}{2}x + 5$ and passes through the point $(-6, -1)$.

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

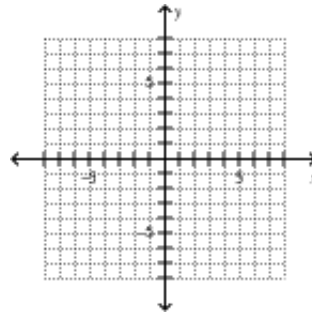
4. Write the equation of the line that is parallel to $y = \frac{2}{5}x - 6$ and passes through the point $(-5, 7)$.

Graph each set of inequalities watch your shading.

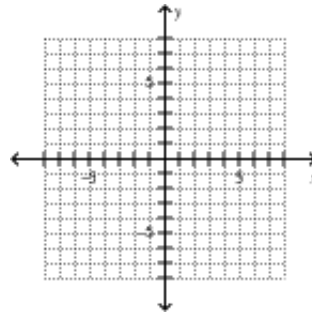
1.
 $y > -5$
 $y < \frac{1}{2}x - 5$



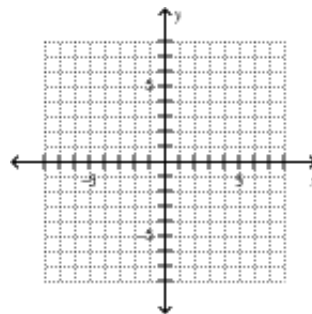
2.
 $y < x + 3$
 $y \leq x - 2$



3.
 $y \geq -4x$
 $x < 4$



4.
 $y \leq 2x + 1$
 $y \geq 2x - 3$



Final Exam Review

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

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

3. Solve the inequality: $\frac{x}{-4} \leq 6$

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 $x \leq -1$

