

Assignment 22

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 passes through the point (-6,-1).

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

3. Write the equation of the line that is perpendicular to $y = -2x$ 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 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.

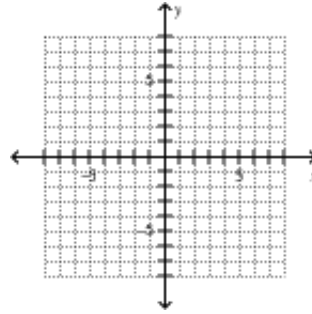
6. Find the slope of the line that contains (-4,6) and (5,-9)

Test 5 Practice

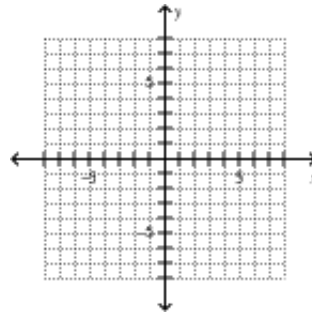
- Write the equation of the line that has a slope of 2 and passes through the point $(-3, -1)$.
- Write the equation of the line that is parallel to $y = \frac{1}{2}x + 5$ and passes through the point $(-6, -1)$.
- Write the equation of the line that is perpendicular to $y = -\frac{3}{4}x + 6$ and passes through the point $(9, -1)$.
- Write the equation of the line that passes through the points $(3, 7)$ and $(-1, 3)$.

Graph each set of inequalities watch your shading.

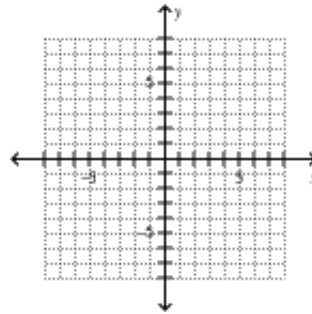
1.
 $y > 4$
 $y \leq \frac{3}{2}x - 1$



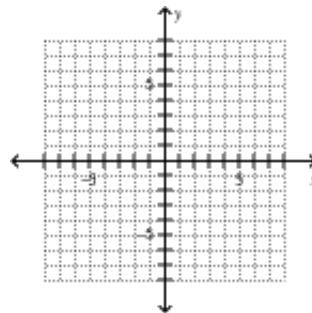
2.
 $x + y < 3$
 $3x - 2y \leq 6$



3.
 $y > 2x$
 $x > -2$



4.
 $y > \frac{1}{2}x - 5$
 $x - 4y > -8$



Final Exam Review

- Solve for x : $-\frac{3}{5}x = 15$
- Solve for x : $3x - 20 + x = 12 - 4x$
- Solve the inequality: $\frac{x}{-3} > 10$
- Write the equation in slope intercept form: $x + 3y = 12$
- Find the slope of the line represented by $2x - 4y = 20$
- Graph the following compound inequality:
 $x > 7$ and $x > -4$

