

Assignment 24 ~ Algebra of Lines

Name: _____

1. Write the equation $-2x - 4y = 16$ in slope intercept form.

5. Write an equation in slope-intercept form for the line parallel to $y = 2x - 5$ that passes through the point $(-3, 4)$.

2. Find the slope of the line that contains $(-7, -6)$ and $(-3, 10)$

6. Write the equation that describes the line with slope $= 2$ and y -intercept $= \frac{3}{4}$ in slope intercept form.

3. What is the slope of the line represented by the equation: $x - 4y = 8$

7. Write an equation in slope-intercept form for the line that passes through $(2, 5)$ and $(3, 9)$.

4. Find the slope of a line perpendicular to the following line: $y = \frac{2}{3}x + 4$

8. Write an equation in slope-intercept form for the line perpendicular to $y = -\frac{1}{3}x + 2$ that passes through the point $(2, -4)$.

9.

Find the slope of the line that contains $(11,7)$ and $(5,4)$

13.

What is the slope of the line represented by the equation: $2x + 3y = -21$

10.

Write an equation in slope-intercept form for the line with slope $= -\frac{3}{4}$ that passes through the point $(-8,2)$.

14.

Write an equation in slope-intercept form for the line parallel to $y = \frac{3}{2}x + 3$ that passes through the point $(-6,-10)$.

11.

Write the equation $x - 3y = 15$ in slope intercept form.

15.

Write an equation in slope-intercept form for the line that passes through $(-3,2)$ and $(1,-2)$.

12.

Find the slope of a line perpendicular to the following line: $y = -2x + 6$

16.

Write the equation that describes the line with slope $= -\frac{4}{3}$ and y -intercept $= 5$ in slope intercept form.