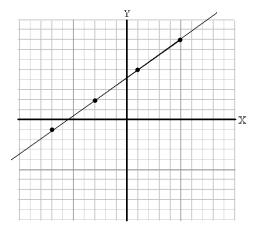
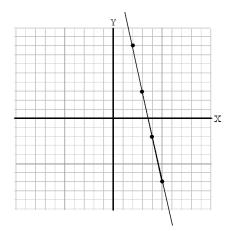
<u>DIRECTIONS</u>: Determine whether or not the relation is a function.

<u>DIRECTIONS</u>: Determine the slopes of the lines on the graphs.



3. $\frac{3}{4}$



4. -5

<u>DIRECTIONS</u>: Find the slopes of the lines passing through the given points. Also state whether the lines are rising, falling, horizontal, or vertical.

5.
$$(-3,5), (6,2)$$

$$-\frac{1}{3}$$

6.
$$\left(\frac{1}{3}, \frac{5}{4}\right), \left(\frac{4}{3}, \frac{11}{4}\right)$$

<u>DIRECTIONS</u>: Determine whether the relationships between Line 1 & Line 2 is parallel, perpendicular, or neither.

- 7. Line 1: through (0,8) and (-6,0)Line 2: through (-7,6) and (-3,9)Neither
- 8. Line 1: through (-8, -2) and (-5, 4)
 Line 2: through (0, 4) and (1, 6)
 Parallel

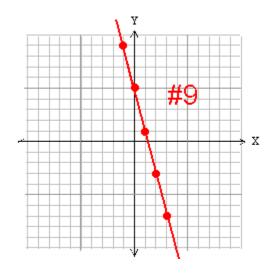
<u>DIRECTIONS</u>: Graph the following equations. Use a straightedge to make your lines.

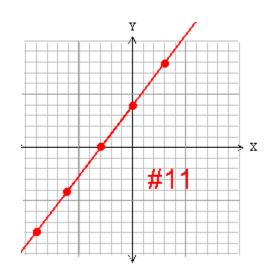
9.
$$y = -4x + 5$$

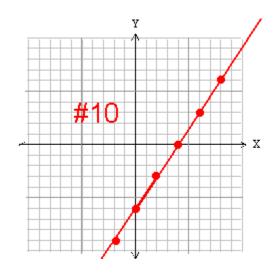
10.
$$y = \frac{3}{2}x - 6$$

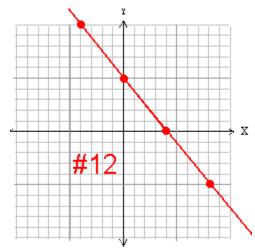
11.
$$4x - 3y = -12$$

12.
$$5x + 4y - 20 = 0$$









DIRECTIONS: Evaluate the functions for the given value of x.

13.
$$f(x) = x + 7$$
; $f(-5)$
 $f(-5) = 2$

14.
$$f(x) = |4x + 1| + 2$$
; $f(-7)$
 $f(-7) = 29$

15.
$$f(x) = 3x^2 + 4x - 5$$
; $f(3)$ $f(3) = 34$

16.
$$f(x) = 12$$
; $f(9)$
 $f(9) = 12$

<u>DIRECTIONS</u>: Write an equation in standard form (Ax + By = C) for the lines that are determined by the given information.

17. Slope is –3 and y-intercept is
$$(0, 6)$$

 $3x + y = 6$

18. Contains (-2, 5) and slope is 3
$$3x - y = -11$$

19. Contains
$$(-4, 2)$$
 and $(8, -6)$
 $2x + 3y = -2$

20. Contains (5, 9) and
$$(-1, -1)$$

 $5x - 3y = -2$

21. Contains (2, 4) and is perpendicular to the line
$$y = -\frac{1}{6}x + 2$$

$$6x - y = 8$$

22. Contains
$$(-1,3)$$
 and is parallel to the line $y=2x+4$
$$2x-y=-5$$