

Name _____ Date _____

Write the equation of the line passing through the given point with the given slope.

1) $m = -2$, through $(-5, 1)$

2) $m = \frac{1}{2}$, through $(6, -3)$

3) Write the equation of the line through $(3, 2)$ and $(-1, 6)$.

4) Write the equation of the line with intercepts $(12, 0)$ and $(0, -3)$.

5) Find the equation that generated the table.

x	y
-6	13
-1	3
3	-5

6) Do these points lie on the line

$$y - 4 = \frac{1}{2}(x - 1)?$$

$(-3, 6)$ _____

$(9, 2)$ _____

State whether the two equations are parallel, perpendicular, or neither.

7) $y = -3x$
 $y = \frac{1}{3}x + 7$

8) $2x - 5y = 1$
 $2x - 5y = -7$

9) $x - 4y = 12$
 $4x + y = -2$

10) $y = 2x + 6$
 $y = -2x - 6$

11) $y = 4x - 3$
 $y = 4x + 1$

12) $3x - 2y = 6$
 $2x - 3y = 10$