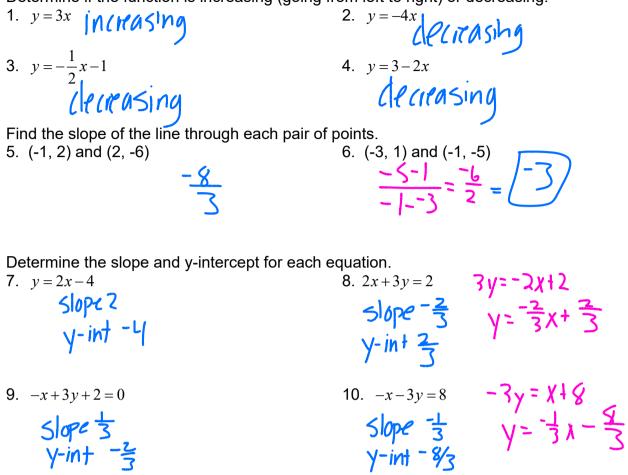
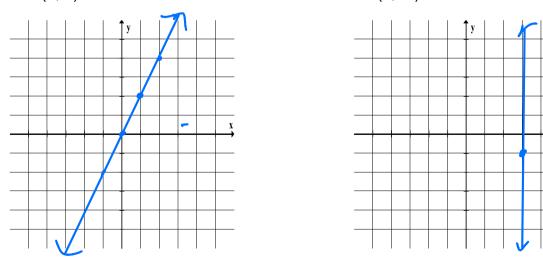
Name _____

X

Determine if the function is increasing (going from left to right) or decreasing.



Draw the line that contains the given point P and has slope m. 11. (1, 2) and m=212. (3, -1) and m = undefined



Write an equation of the line passing through the given point and having slope *m*.

13. (-1, 0) and $m = \frac{2}{3}$

14. (-1, 3) and m = 10 y-3 = 10(x+1)y = 10x + 10 + 3

15. Write an equation of the line with slope, $m = -\frac{3}{4}$, and y-intercept, b = -3. $\sqrt{-\frac{3}{4}} \sqrt{-\frac{3}{5}}$

Write an equation of both the vertical and horizontal line through the given point. 16. (-2, 3) $Ver(+ \chi = -2$ $Ver(+ \chi = 0$

vert x=-2 honz y=3

honz y=2

X=8

Write an equation of the line through the given pair of points.18. (-1, 0) and (3, 1)19. (8, 1) and (8, -4)

20. (1, 1) and (0, 2)

$$\frac{2 \cdot 1}{0 - 1} = -1$$

y - 1 = -1(x-1)
y - 1 = -x + 1
y = -x + 2

21. (0, 300) and (10, 365)

$$y = \frac{13}{13}x + 300$$