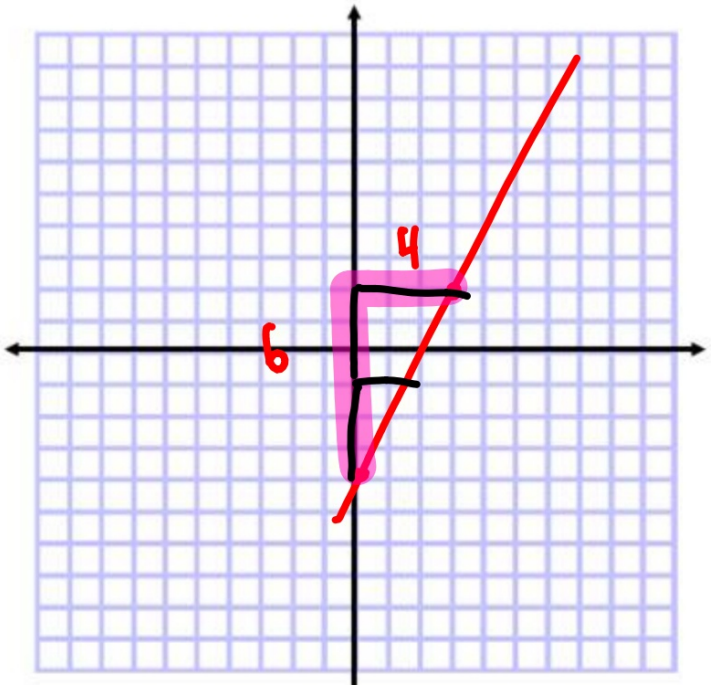
Algebra 1 Review for Midchapter test

MCT 3.1-3.4 is Wed.

Example 3

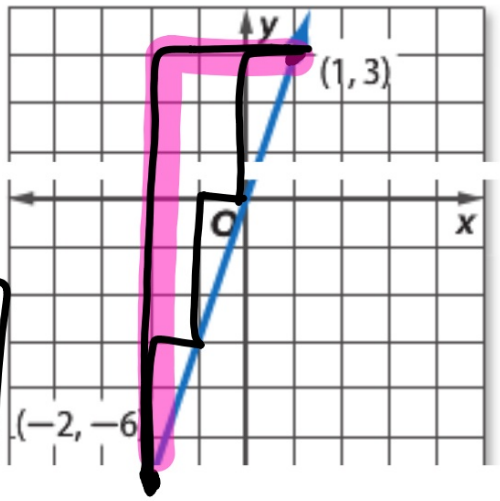
Find the slope of the line that passes through (0, −4) and (3, 2).

$m = \frac{6}{4} = \frac{3}{2}$



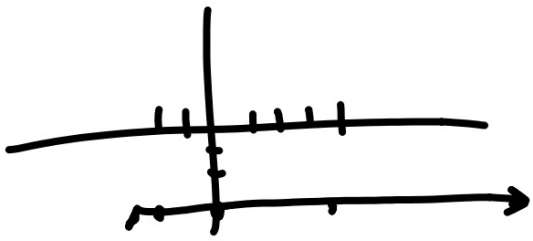
Find the rate of change represented in each table or graph.

27.



28.

x	y
−2	−3
0	−3
4	−3
12	−3



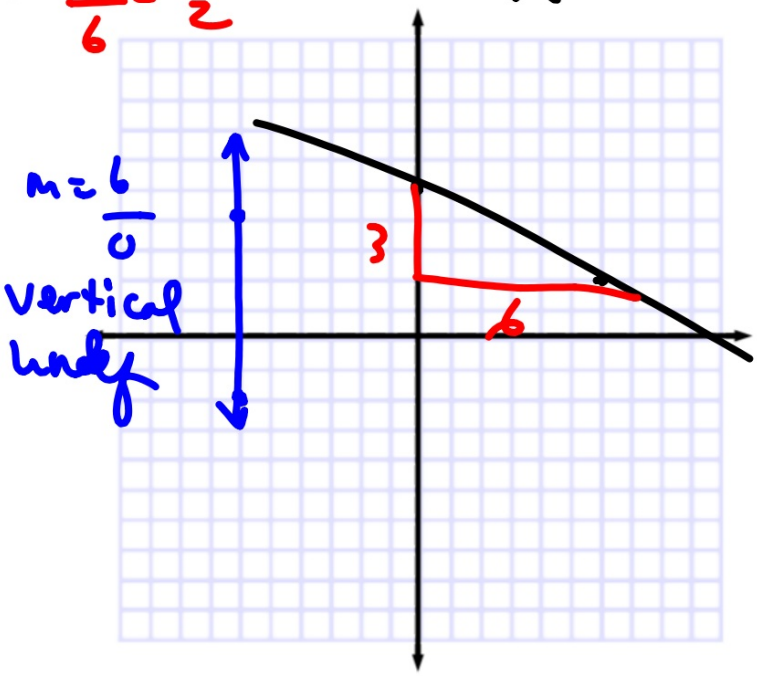
Find the slope of the line that passes through each pair of points.

29. (0, 5), (6, 2)

$m = \frac{-3}{6} = \frac{-1}{2}$

30. (−6, 4), (−6, −2)

$m =$



31. **PHOTOS** The average cost of online photos decreased from \$0.50 per print to \$0.15 per print between 2002 and 2009. Find the average rate of change in the cost. Explain what it means.

(2002, 0.50)
(2009, 0.15)

$\frac{-.35}{7}$ $-.05$ per year

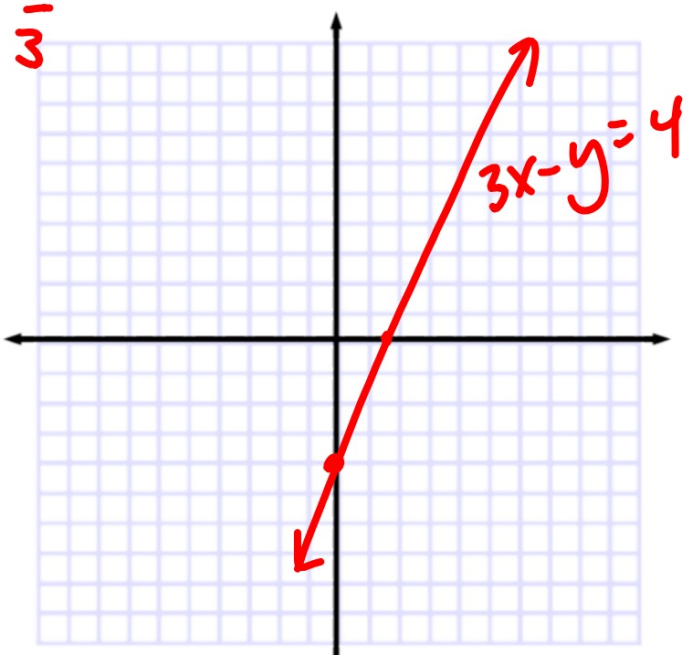
$3x - y = 4$ $\quad \frac{-1y}{-1} = \frac{4}{-1}$

$(0, -4)$

Graph $3x - y = 4$ by using the x- and y-intercepts.

~~Find the x-intercept.~~ ~~Find the y-intercept.~~

$(1\frac{1}{3}, 0)$ $\quad \frac{3x}{3} = \frac{4}{3}$

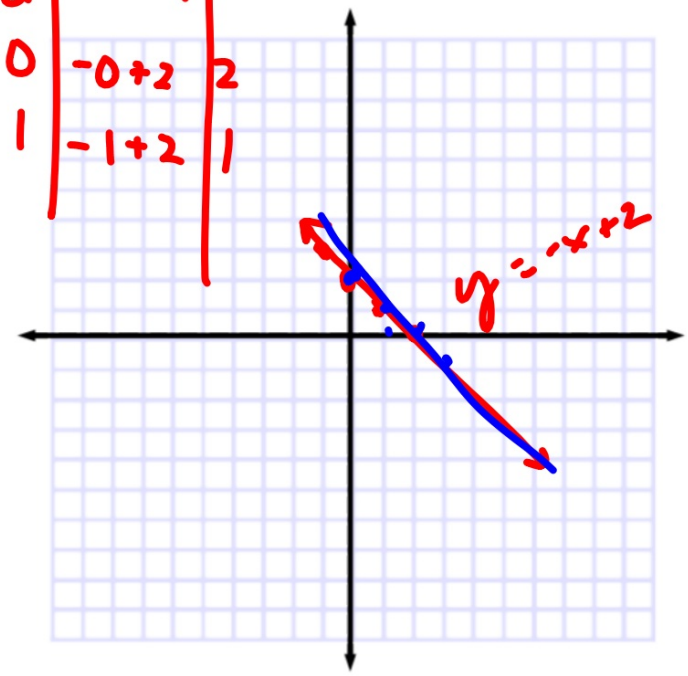


$y = mx + B$

Graph each equation.

13. $y = -x + 2$

$-x+2$	
-1	$-(-1)+2$ → 3
2	$-2+2$ → 0
0	$-0+2$ → 2
1	$-1+2$ → 1

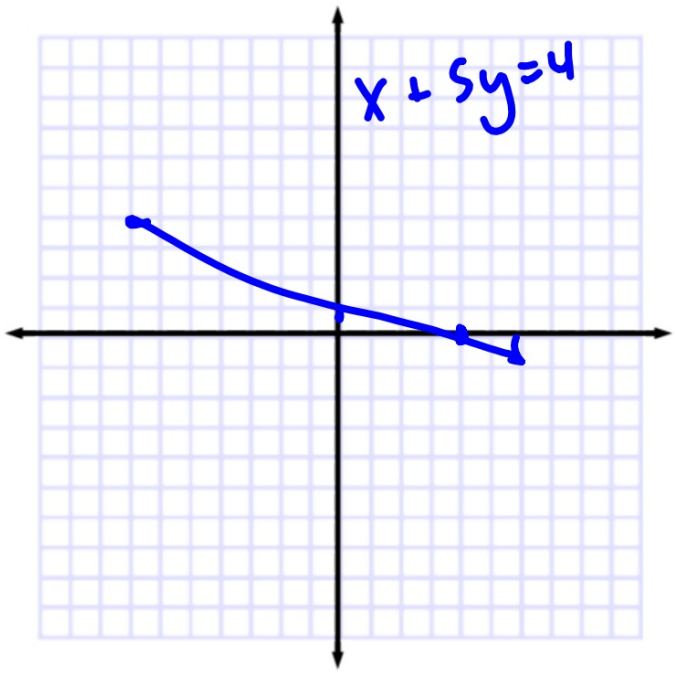


14. $x + 5y = 4$

$\frac{5y}{5} = \frac{4}{5}$

(4, 0)

$(0, \frac{4}{5})$



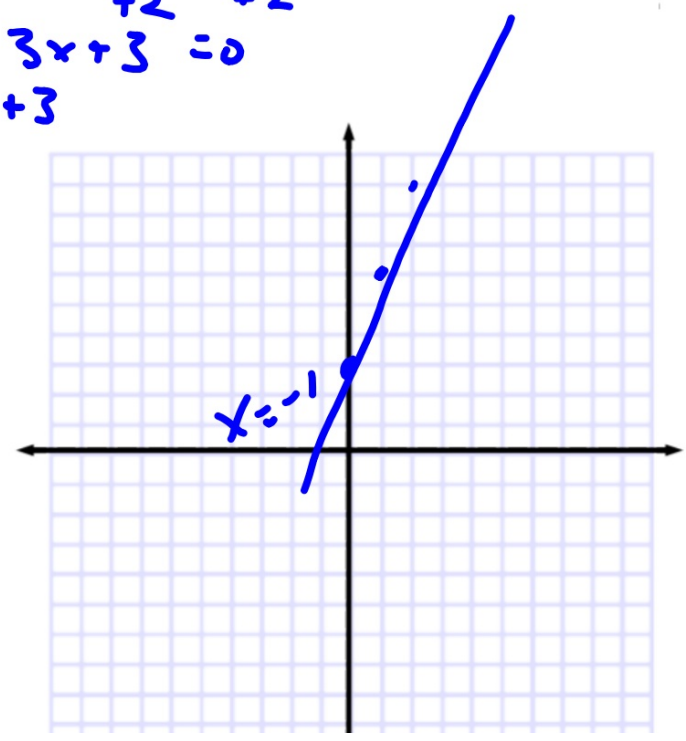
Example 2

Solve $3x + 1 = -2$ by graphing.

$+2 \quad +2$

$3x + 3 = 0$

$y = 3x + 3$



$3x + 1 = -2$

$-1 \quad -1$

$\frac{3x}{3} = \frac{-3}{3}$

$x = -1$

Solve
Solve by graphing

18. $0 = 2x + 8$

$-8 \quad -8$

$\frac{-8}{2} = \frac{2x}{2}$

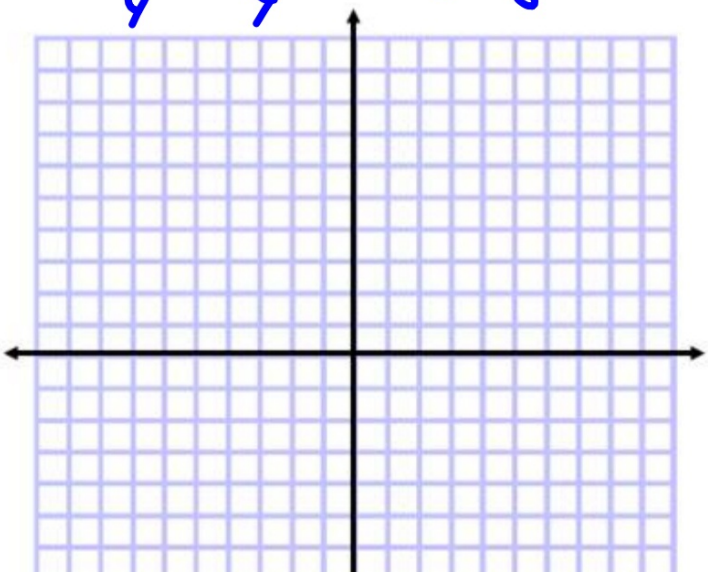
$-4 = x$

19. $0 = 4x - 24$

$+24 \quad +24$

$\frac{24}{4} = \frac{4x}{4}$

$x = 6$



Solve each equation by graphing.

22. $0 = 16 - 8x$

23. $0 = 21 + 3x$