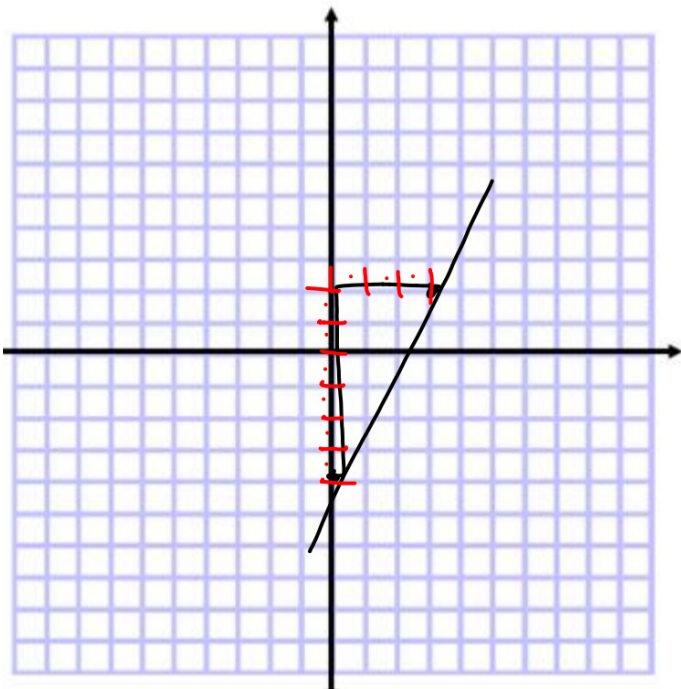


Algebra 1 Review for Midchapter test  
Quiz 3.3 today  
MCT 3.1-3.3 is Wed.

$$m = \frac{\text{vert} \begin{array}{l} \uparrow \\ \downarrow \end{array}}{\text{horiz.} \rightarrow}$$

### Example 3

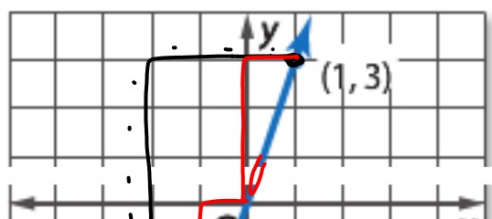
Find the slope of the line that passes through  $(0, -4)$  and  $(3, 2)$ .



$$m = \frac{6}{3} = \frac{2}{1} = 2$$
$$\frac{7}{4}$$

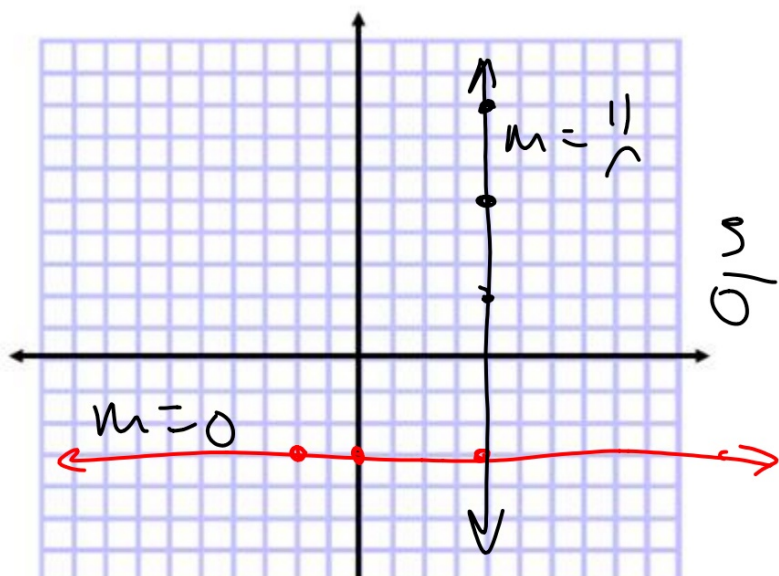
Find the rate of change represented in each table or graph.

27.



28.

x	y
-2	-3
0	-3
4	-3
12	-3

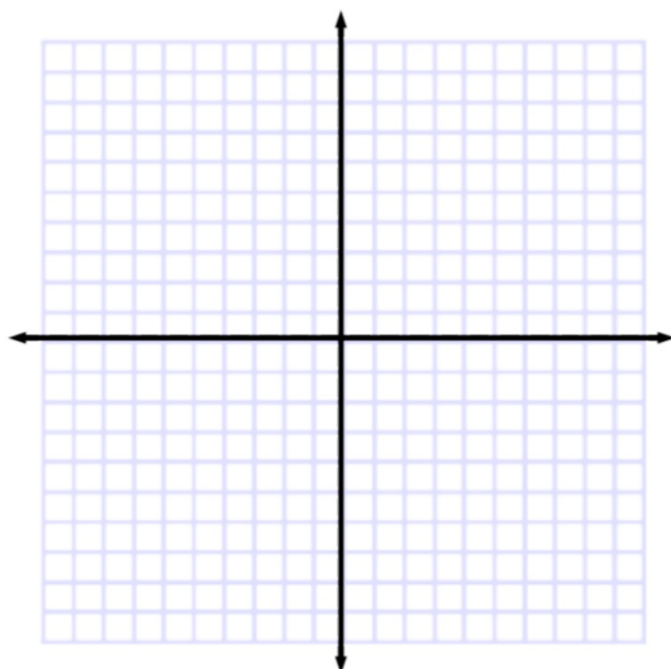


$$\frac{0}{2} = 0$$

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

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

30.  $(-6, 4), (-6, -2)$



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, 50    2009, .15

$$\boxed{\frac{-.35}{7}} = -\frac{0.5}{1}$$

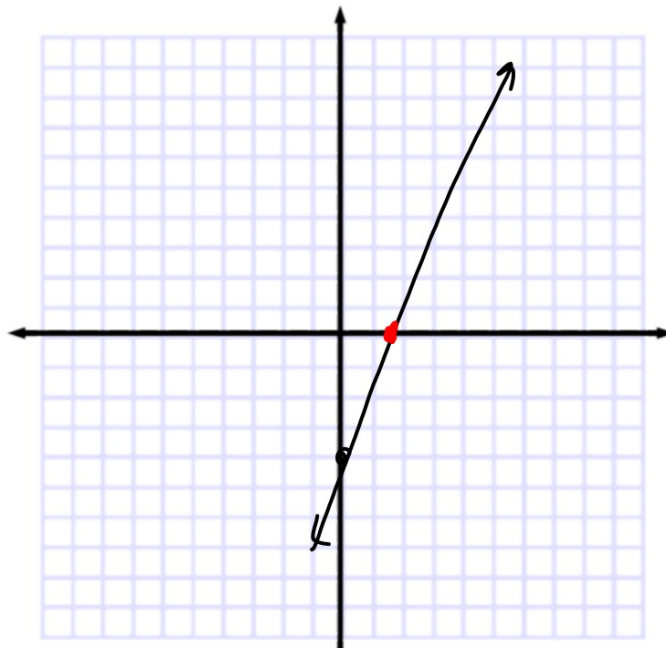
Graph  $3x - y = 4$  by using the  $x$ - and  $y$ -intercepts.

Find the  $x$ -intercept.

Find the  $y$ -intercept.

$$(0, -4) \quad \frac{-y}{-1} = \frac{4}{-1}$$

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



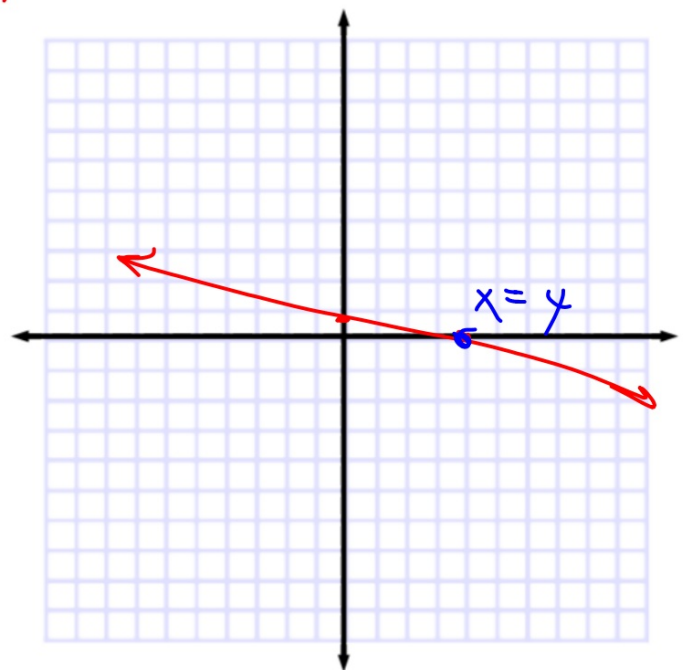
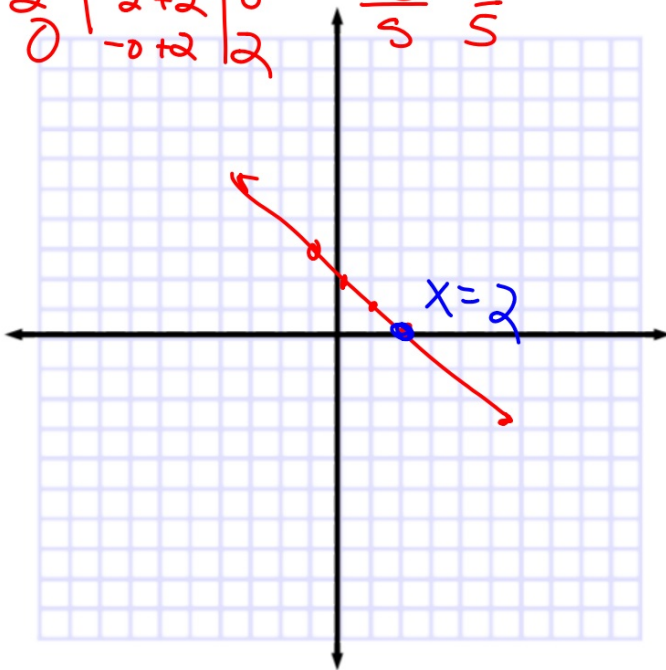
Graph each equation.

13.  $y = -x + 2$

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

14.  $x + \cancel{y} = 4$

$(0, 4)$        $(4, 0)$   
 $\frac{5y}{5} = \frac{4}{5}$        $x = y$

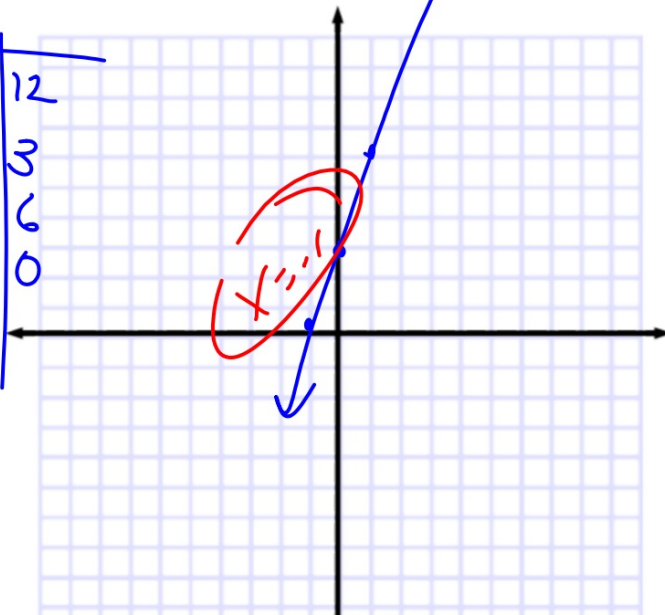


## Example 2

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

$$y = 3x + 3 \quad 3x + 3 = 0$$

3	$3 \cdot 3 + 3$	12
0	$3 \cdot 0 + 3$	3
1	$3 \cdot 1 + 3$	6
-1	$3 \cdot -1 + 3$	0





Solve

~~Find the root of~~ each equation.

$$18. \quad 0 = 2x + 8$$

$$\quad -8 \quad -8$$

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

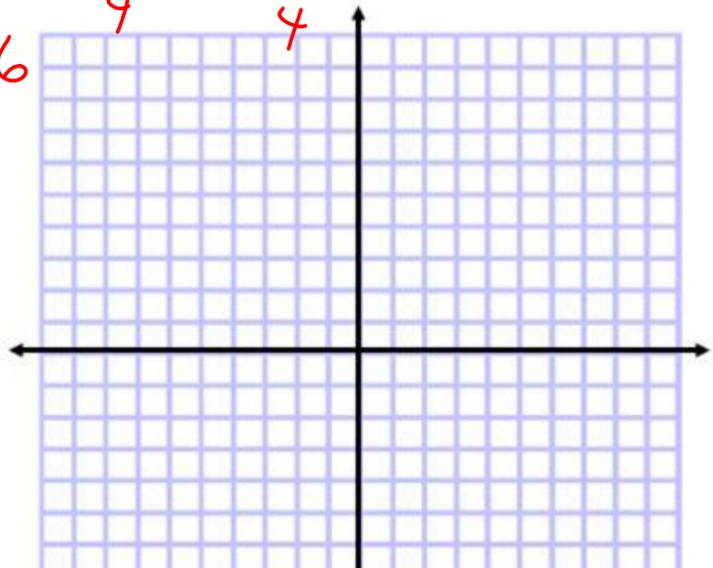
$$-4 = x$$

$$19. \quad 0 = 4x - 24$$

$$\quad 24 \quad +24$$

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

$$x = 6$$



Solve each equation by graphing.

22.  $0 = 16 - 8x$

23.  $0 = 21 + 3x$

$0 = 16 - 8 \cdot 2$   
 $0 = 16 - 16$   
 $y = 16 - 8x$

$y = 21 + 3x$

0	$16 - 8 \cdot 0$	16
-1	$16 - 8 \cdot -1$	24
1	$16 - 8 \cdot 1$	8
-3	$16 - 8 \cdot -3$	40

