Algebra 1 Review for Midchapter test

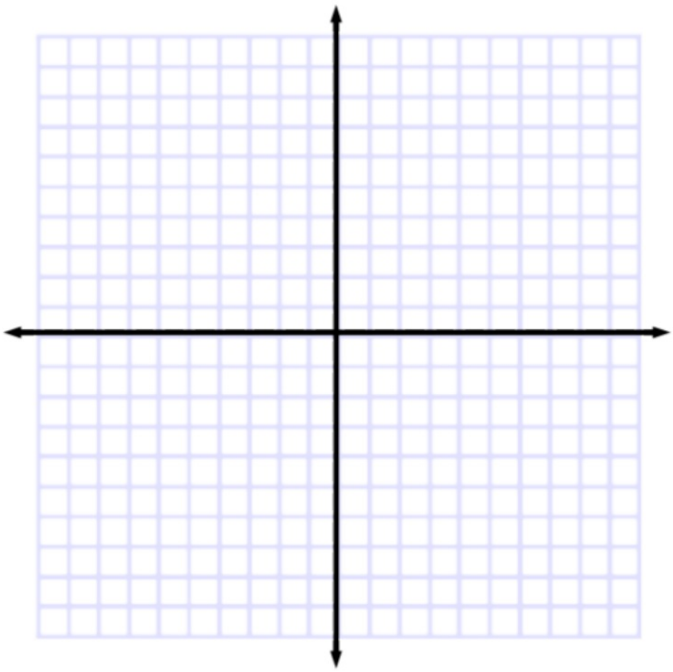
MCT 3.1-3.3 is tomorrow

Example 3

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

$m = 2$

$= \frac{2}{1}$

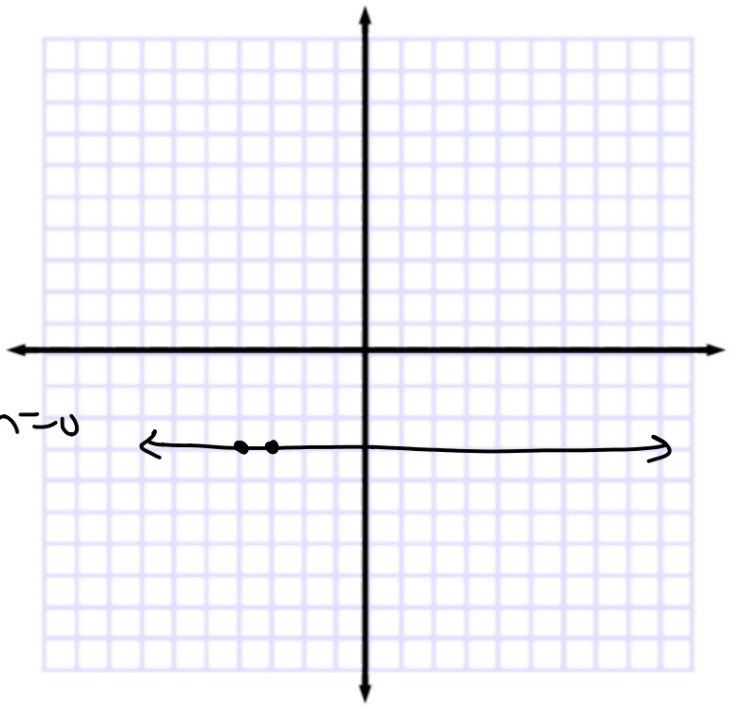


$\frac{-1400}{2} = -700$

Find the ~~rate of change~~ Slope per year

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

$\frac{0}{1}$ $m=0$



$\frac{0}{3}$ = ~~undefined~~ = 0

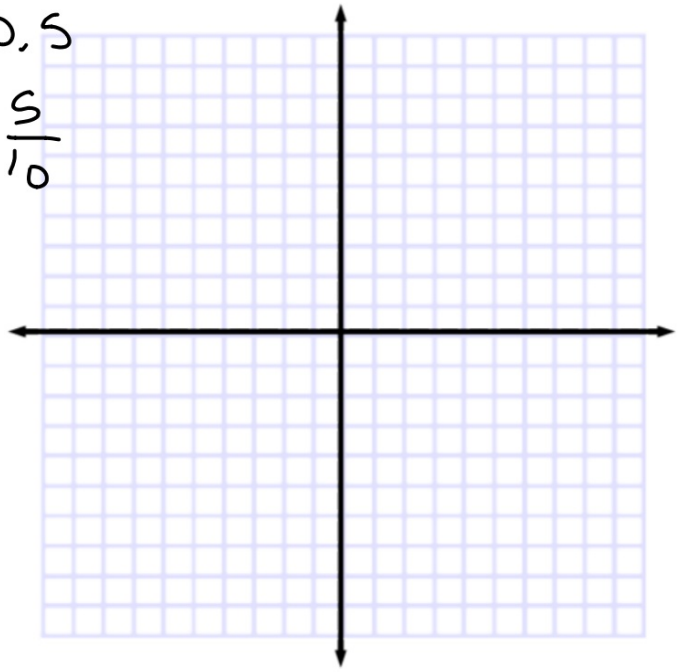
Find the slope of the line that passes through each pair of points.

$\frac{4}{0}$ =

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

30. (−6, 4), (−6, −2)

$\frac{-1}{2}$ $\frac{1}{-2}$ -0.5 $\frac{-5}{10}$

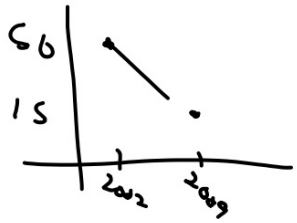


$.89 89¢

31. Photos ~~0.89¢~~

The average cost of online photos decreased from $.50 per print to $.15 per print between 2002 and 2009. Find the rate of change in the cost. Explain what it means. *per year*

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

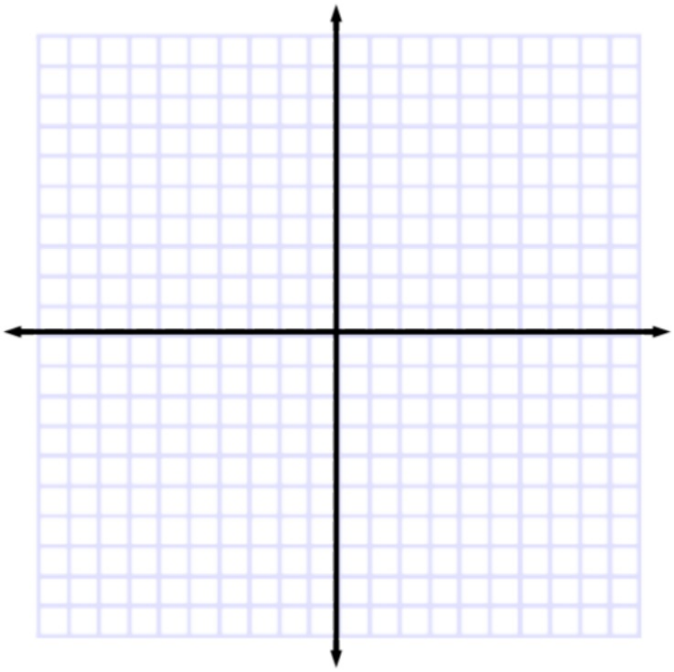


Ex. 1

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

$(0, -4)$

$(1\frac{1}{3}, 0)$



$y = mx + b$

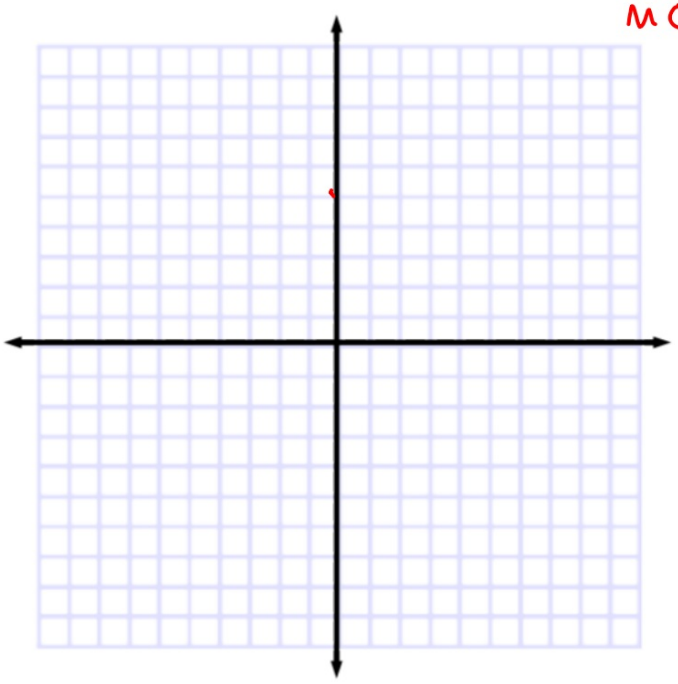
Graph each equation.

(Use any method)

13. $y = -x + 2$

14. $x + 5y = 4$

x & y int



p 181

MCQ 1-24

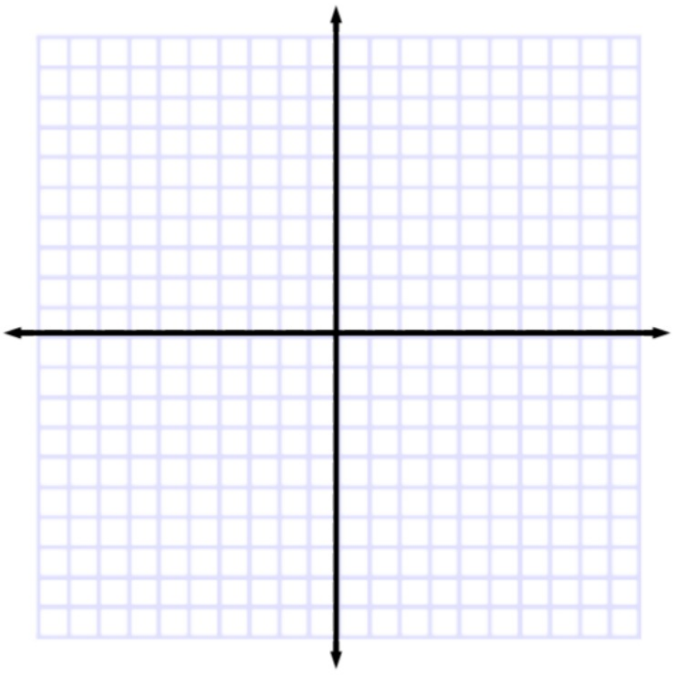
all

X-int.

Solve by graphing:

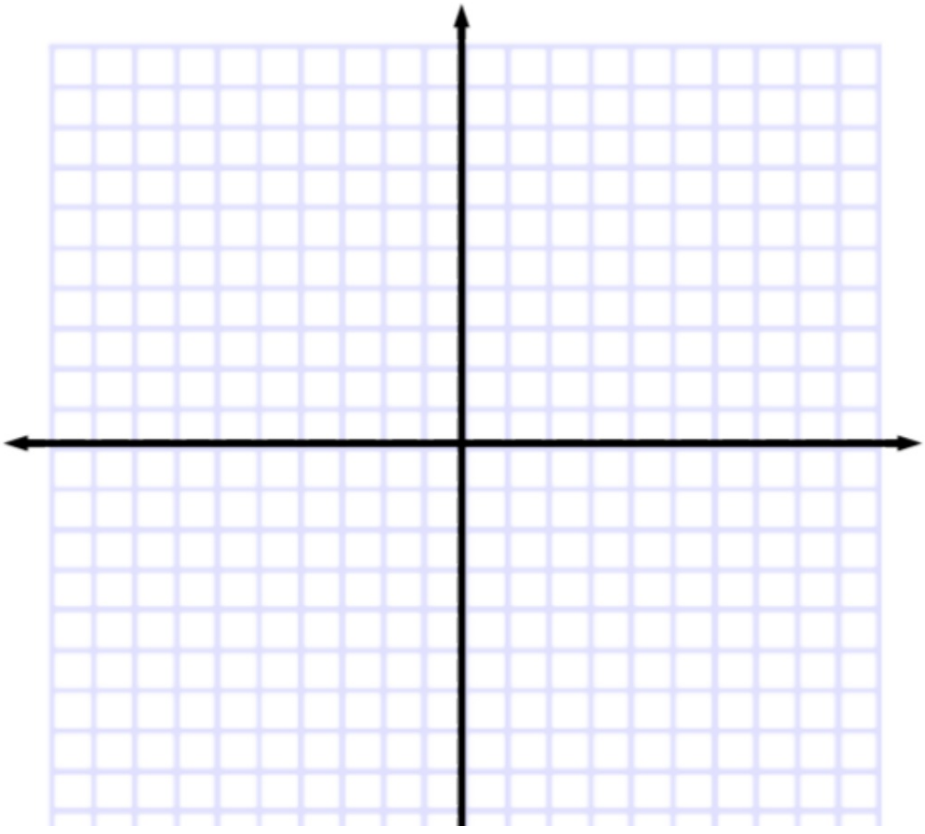
$3x + 1 = -2$

$y =$



18. $0 = 2x + 8$

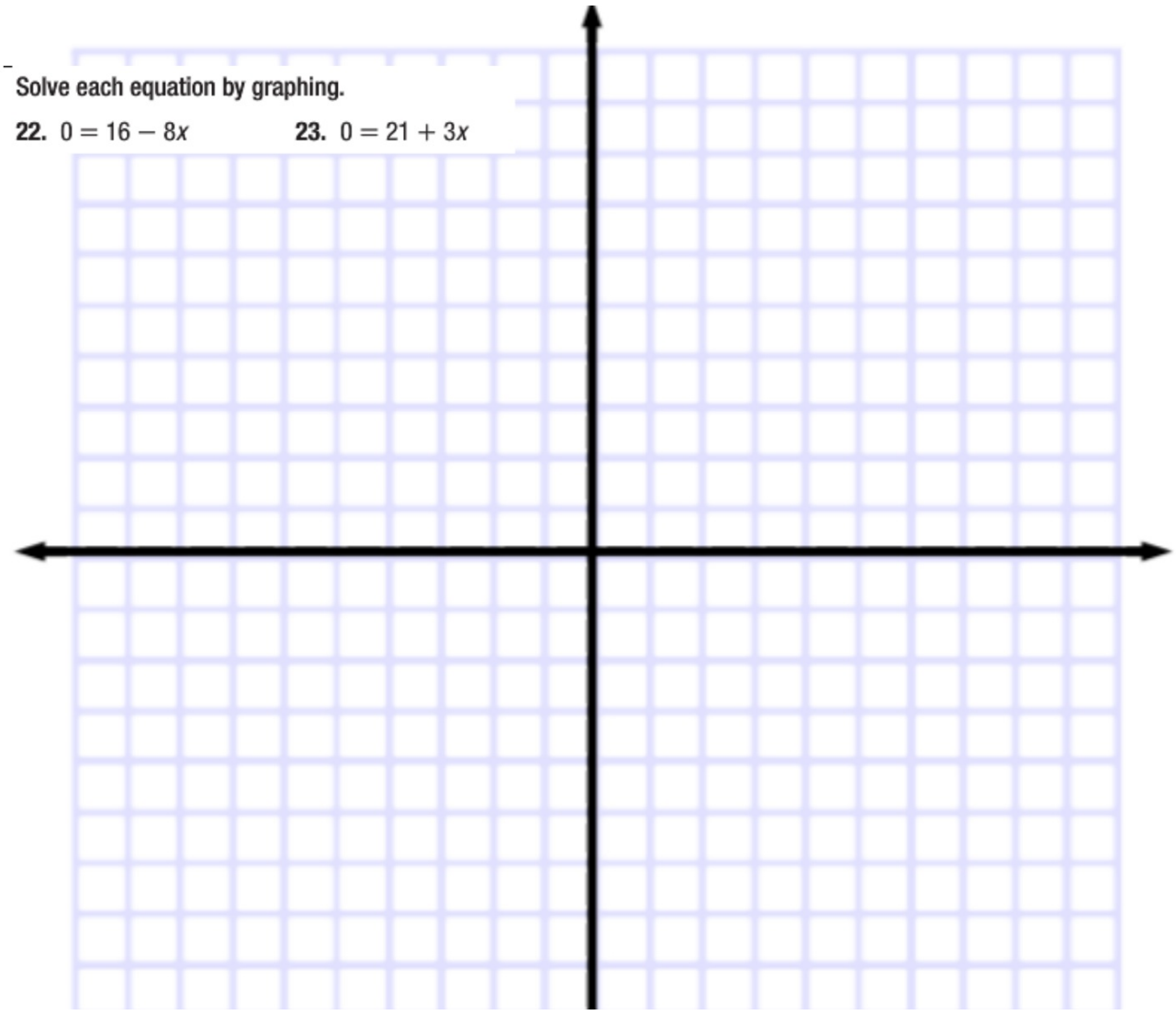
19. $0 = 4x - 24$



Solve each equation by graphing.

22. $0 = 16 - 8x$

23. $0 = 21 + 3x$



24. $-4x - 28 = 0$ **25.** $25x - 225 = 0$

26. **FUNDRAISING** Sean's class is selling boxes of popcorn to raise money for a class trip. Sean's class paid \$85 for the popcorn, and they are selling each box for \$1. The function $y = x - 85$ represents their profit y for each box of popcorn sold x. Find the zero and describe what it means in this situation.

$0 = x - 85$
$+85 \quad +85$
$85 = x$

$-4x - 28 = 0$
$+28 \quad +28$
$\frac{-4x}{-4} = \frac{28}{-4}$
$x = -7$
ans.

Y varies directly as x.
Y=12 when x=8.
Write an equation relating x and y.
What is the value of y when x=44?

$y = kx$

$12 = k \cdot 8$

$\frac{12}{8} = \frac{k \cdot 8}{8}$

$\frac{12}{8} = k$

$1.5 = k$

$y = 1.5(44)$

$= 66$

Graph $y=\frac{3x}{1}+0$