

6-2

Remember slope-intercept form: $y = mx + b$; m = slope and b = y -intercept.

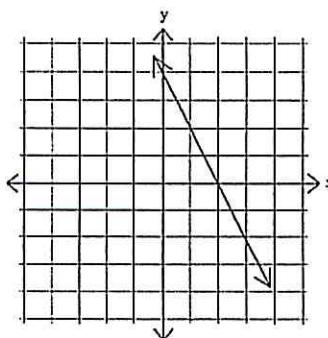
Identify the slope and y -intercept for each equation. (2 points each)

4) $y = 2x + 3$
 $m = \underline{2}$ $b = \underline{3}$

5) $y = 3 - \frac{1}{4}x$
 $m = \underline{-\frac{1}{4}}$ $b = \underline{3}$

- 6) Write the equation of the line with slope 2 and y -intercept -1.
(2 points) $y = 2x - 1$

- 7) Write the equation for this line. Find the slope (m) and the y -intercept (b).
(2 points)

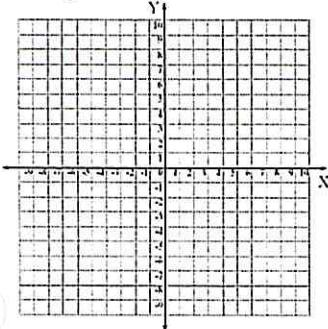


$$y = -2x + 4$$

8-10

- a) Graph each equation and tell what the slope of the line is. (2 points each)
b) Tell whether (4, -2) is a solution for each equation. (1 point each)

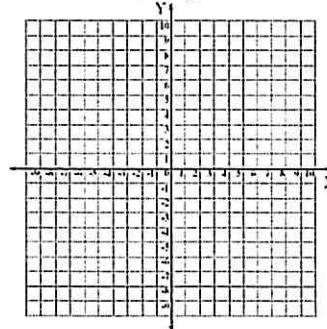
8) $y = -3x - 4$



$$m = 3$$

NO

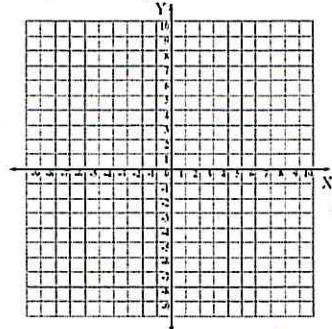
9) Graph $y = -2$



$$m = 0$$

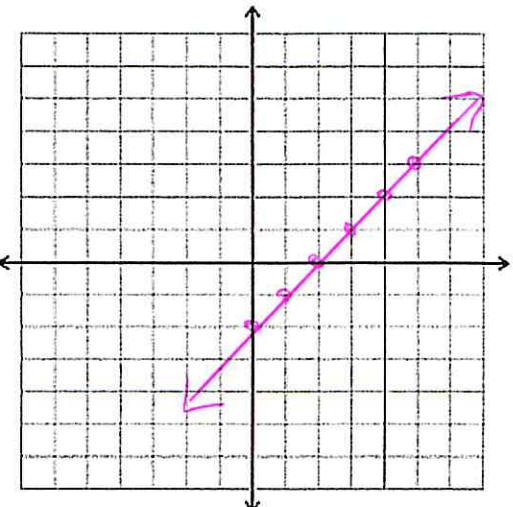
yes

10) Graph $x = 4$



$$m = \text{undefined}$$

yes



Slope (m) -1

y -intercept (b): 2

Table

x	y
-2	4
-1	3
0	2
1	1
2	0

Slope Intercept Form

$$y = mx + b$$

Let's use

$$y = -x + 2$$

$$y = mx + b$$

Is the ordered pair $(5, 7)$ a solution? If not, give an ordered pair that is a solution.

Does the given line pass through the origin? Explain.
NO the line IS shifted 2 units up.

Is the given line increasing or decreasing?

The line is increasing.

No $(5, 7)$ is NOT on the line.
 $(0, 2)$

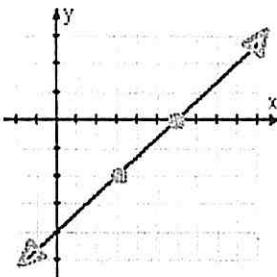
6-1

1. a) Find the rate of change in the table. (3 points)
b) What does the rate of change represent? (2 point)

Number of movies	Amount Paid
3	32.97
5	54.95
8	87.92
12	131.88

a. \$10.99
b. Each movie costs \$10.99

- 2). Find the slope of the line. (Count up and over). (2 points)



$$m = 2/3$$

- 3) Find the slope of the line containing each pair of points. (2 points each)

Use the slope formula: $\frac{y_2 - y_1}{x_2 - x_1}$

a) (4, -1) and (-3, 7)

$$m = -8/7$$

b) (-2, 5) and (-2, -6)

$$m = \text{undefined}$$

c) (3, 4) and (5, 8)

$$m = 2$$