

1. Identify each of the equations as being in slope-intercept form, point slope form or standard

y = 2x - 1	y + 2 = -(x + 4)	4x - 2y = 8
Slope-intercept	point-slope	Standard

2. The rate of change is constant in the table. Find the rate of change.

Explain what the rate of change means.

People	Cost
8	16.00
9	18.00
10	20.00

Rate of Change

What does the rate of change mean for this situation? Each nerson costs \$3

3. What is the slope of a horizontal line?

Horizontal

What is the slope of a vertical line?

Vertical m= undefined

4. Use the slope formula to find the missing

coordinate

$$5 = \frac{1-8}{-2-5}$$

Missing coordinate:
$$\frac{1}{1}$$

m = 5

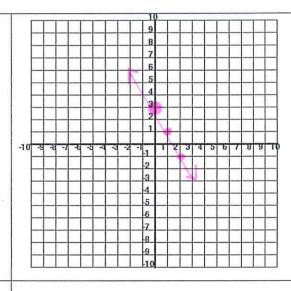
5. Write an equation of the line with the given slope and y-intercept.

$$y=mx+b$$

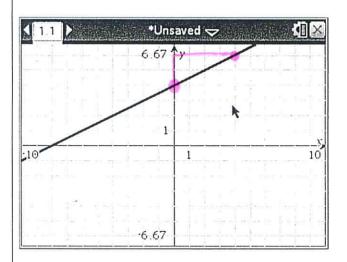
$$y=-3x+5$$

Equation: $\sqrt{1 = -3x + 5}$

6. Graph
$$y = -2x + 3$$



7. Write the equation of the line



Equation: U= Vax +4

8.

2

	X	Y	
-	-6	10	~2
	-4	13	/2
-	-2	16	72
-	0	19	70
1	2	21	72

Linear? Yes No

m = ____

y-intercept = ____

equation y = mx + b: _____

9. Determine if each ordered pair is a solution to the function. f(x) = -5x + 1

Ordered Pair	Work or Explanation	Solution?
(0, 1)	f(0) = -5(0) + 1 = 1	Yes
(2,-9)	f(a) = -5(a) + 1 = -9	Yes
(-2,11)	f(-a) = -5(-a) + 1 = 11	Yes
(-2, -3)	f(-a) = -5(-a) + 1 = 11	No

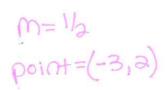
10. A line passes through the given points. Write an equation in point slope form.

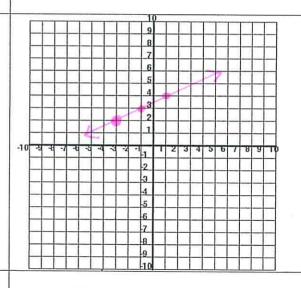
$$M = \frac{1}{x_2 - x_1} = \frac{1 - 2}{7 - 3} = \frac{3}{10}$$

 $(-3,-2),(7,1) \qquad \begin{array}{c} 1 & -2 & 3 \\ 1 & (x-3) \\ 1 & (x+3) \end{array}$

Equation:
$$\sqrt{+2} = \frac{3}{10} \times +3$$

11. Graph the equation y-2 = $\frac{1}{2}$ (x+3)





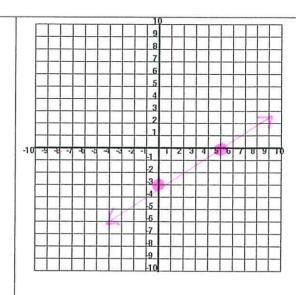
12. Identify the slope and a point from the given equation.

Y + 6 = 2(x - 2) point = (2, -6)

Point: (2,-6)



X Y 0 -3 5 0



14.

The ninth grade class holds a car wash to raise money to send Mrs. Talley to try out for The Voice. A wash costs \$5 per car and \$6 per truck. Write an equation in standard form to relate the number of cars and trucks the students must wash to raise \$3,000.00. If 300 cars are washed how many trucks need to be washed in order to raise the \$1000.00.

Let	x'=# cars let y=# trucks
	5x+6y=3,000
	=1000 · 1 · - 2000

Equation: 5X+6y=3,000

be washed.