Algebra 2

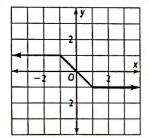
Chapter 2 Practice Test - Part 1

1. Tell whether the relation is a function (circle yes or no). State the domain and range.

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

- a.) Function; D {-3, -1, 0, 2, 3}; R {-2, 0, 1, 2, 3}
 - Function; D {-2, 0, 1, 2, 3}; R {-3, -1, 0, 2, 3}
 - Not a Function; D {-3, -1, 0, 2, 3}; R {-2, 0, 1, 2, 3}
 - Not a Function; D {-2, 0, 1, 2, 3}; R {-3, -1, 0, 2, 3}

2. Tell whether the relation is a function. Explain why.



3. Evaluate the function for the given value of x.

$$f(x) = x^{2} + 5x + 1$$

$$f(-4) = (-4)^{2} + 5(-4) + 1$$

$$-4 + 1$$

4. y varies directly as x. If
$$y = 4$$
 when $x = \frac{1}{2}$, find x when $y = 16$.

$$\frac{4}{1/2} = \frac{16}{X} \quad 4 = 8$$
5. Find the constant of variation if y equals 5 when x if 4.

6. Find an equation of the line with slope = $\frac{1}{3}$; y-int = 2. Leave in standard form. \times is positive y=mx+0 -2(-12x+4)=(2)-2 No fraction ,

$$y=\frac{1}{2}x+2$$
 $x-2y=-4$

7. Find an equation of the line through the points (3, 4), (-1, 0). Leave in slope intercept form.

Find Slope
$$M = \frac{0-4}{1-3} = \frac{-4}{-4} = 1$$

$$y-4=1(x-3)$$

2. Function. Pass VLT

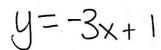
8. Write an equation of the line that passes through (-2, 3) and is perpendicular to the line y=2x+1. leave answer in point slope form.

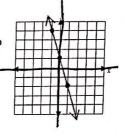
9. The graph of the line x=2 has a slope of:

b.
$$\frac{1}{2}$$

a. 2 b.
$$\frac{1}{2}$$
 c. 0 (d.)ndefined

10. What is the slope and y-intercept of the equation graphed at right?





11. Describe the correlation given a correlation coefficient of r = -0.3

- Strong, negative, linear Weak, negative, linear
- Strong, positive, linear
- d. Weak, positive, linear

$$m=-3$$