LINEAR FUNCTIONS PRACTICE TEST

LINEAR FUNCTIONS I RACTICE TEST
Determine if the given ordered pair is a solution to the function: $3x - 2y = 8$ 1) (-3,4)
Complete the given ordered pairs so that each ordered pair satisfies the given equation. 2) $(2,), (,-3), y = -3x+6$
3) What is the formula for finding the slope of a line?
4) The slope of a vertical line is
5) The slope of a horizontal line is
6) The slope of the y axis is, and the slope of the x axis is
Find the share of the line containing the fallowing resints
Find the slope of the line containing the following points. $ = \sum_{i=1}^{n} (1 + 2) + (1 + 2) $
7) $(-3,2)$, $(7,12)$ 8) $(4,-2)$, $(-3,5)$ 9) $(-3,2)$, $(-3,-2)$
10) What can you say about the slopes of parallel lines?
11) The slope of line 1 is $\frac{2}{3}$. Line 2 is perpendicular to line 1. What is the slope of line 2?
12) How are the slopes of perpendicular lines related?
13) What is the Slope Intercept Form of a line?
14) What is the Standard Form of a Line?
15) What is the Point-Slope form of a line?
16) When writing the equation of a line in standard form, what two restrictions must be satisfied?
17) Find the equation of a line, in standard form that passes through the points A) (-3,2), (7,12) B) (0,-3), (7,-8) C) (-3,2), (-3,-2)

18) Find the equation of the line that is perpendicular to $y = -\frac{2}{3}x + 7$, and contains the point (-2,5).

Slope-Int Form:

Standard Form

19) Find the equation of the line that is parallel to $y = -\frac{2}{3}x - 2$, and contains the point (5, 8).

Slope-Int Form:

Standard Form:

20) Find the equation of the vertical line passing through (2,-4).

21) Find the equation of the horizontal line passing through (8,6).

22) Find the equation of the vertical and horizontal lines that intersect at (-3,5).

23) Where do the lines x = 4 and y = -2 intersect?

24) Find the distance of the line segment that has the following endpoints. (-2, -3), (4, 3)

25) Given f(x) = 3x-6, g(x) = x-12, and h(x) = -2x-5 find each of the following.

a)
$$f(a+b)$$
 b) $g(3x+2)$ **c**) $h(x-12)$

d)
$$f(g(x))$$
 e) $f(2)+g(2)+h(2)$ **f**) $(f+g)(6)$

Complete the table for each of the following functions:

26) $f_{(x)} = 3x - 5$									
x	-2	-1	0	1	2	3			
$f_{(x)}$									

27) $f_{(x)} = -3x + 1$									
x	-2	-1	0	1	2	3			
$f_{(x)}$									

28) Find the equation of the function yielding the following results.

x	-2	-1	0	1	2	3
$f_{(x)}$	7	5	3	1	-1	-3

 $f_{(x)} =$

29) Find the equation of the function yielding the following results.

	x	-2	-1	0	1	2	3
F	$f_{(x)}$	-13	-8	-3	2	7	12

 $f_{(x)} =$