Chapter 6 Practice Test 2

Name:			Time>	Start:	Finish:	Total Time =
Consider these three functions: $f(x) = -x - 1$ $g(x) = -5(x^2 - 1)$		$h(x) = (2x - 1)^2$				
1.	f(-7) =		2.	g(-2) =		
3.	h(-3) =	-	4.	f(-1) =		
5.	g(3) =		6.	h(-1) =		

State if the given sets or graphs are functions or not functions. To be a function, for each x value, there can only be one y value. Circle your answer

7. $\{(2,1),(5,9),(2,7)\}$ 8. $\{(2,1),(1,1),(5,1)\}$ Yes NoYes No



- 12. Which of these is the zero of the function $f(x) = x^2 2x 8$? A. 2 B. -1 C. 4 D. 0
- 13. Which of these is the zero of the function $f(x) = x^2 2x + 1$? A. -1 B. -2 C. 3 D. 1

Look at the graphs below and list the x and y-intercepts. Write them as an ordered pair like (0, 3) and (7, 0). Some have two intercepts.



Determine the x and y-intercepts of the given functions.

17.	$\mathbf{f}(\mathbf{x}) = 6\mathbf{x} - 3$	x-intercept =	y-intercept =
18.	f(x) = 2x - 2	x-intercept =	y-intercept =
19.	$f(x) = \frac{1}{2}x - 4$	x-intercept =	y-intercept =

- 20. If the domain of f(x) = 5x + 1 is $\{-3, 2, 10\}$, what is the range?
- 21. If the domain of f(x) = -x 8 is $\{-3, 2\}$, what is the range?

Chart 1		
Х	у	
3	-1	
4	-6	
5	-8	
?	?	

Cha	Chart 2		
х	У		
1	5		
2	4		
3	8		
?	?		

- _22. If in Chart 1 above the two question marks were replaced by (3, -2), would the chart represent a function?
- _23. If in Chart 2 above the two question marks were replaced by (4, 9), would the chart represent a function?

24.	Give the equation of the line, in slope intercept form, that goes through the point $(7, 4)$ and has a slope of -3.
25.	Give the equation of the line, in slope intercept form, that goes through the point $(4, 1)$ and $(3, 6)$
26.	Give the equation of the line, in slope intercept form, that goes through the point (-3, 6) and is parallel to the line $y = 2x - 1$.
27.	Give the equation of the line, in slope intercept form, that goes through the point (4, 16) and is perpendicular to the line $y = 2x + 5$.