Algebra 1 Name:_____ Date:_____

Unit 1 - Introduction to Graphing – HOMEWORK F

Information about functions may be obtained from **a table, a graph, or a formula**. Use the table, graph, or formula to fill in the blanks.

1. y = x - 5

x	y
-2	
-1	
0	
1	
2	

type of function_____

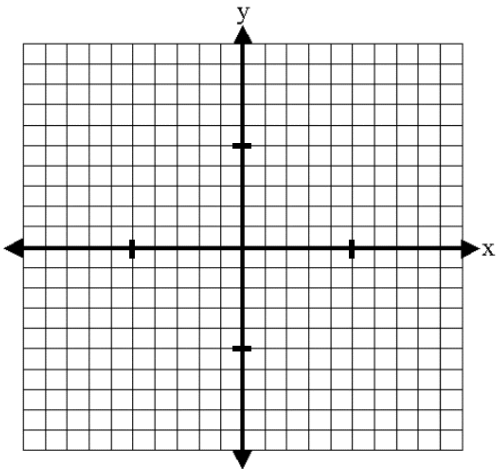
domain_____range_____

x-intercept(s) _____

y-intercept _____

f(-4)= _____

If f(x)=0, then x=_____



2. f(x) = -3x^2

x	f(x)
-2	
-1	
0	
1	
2	

type of function_____

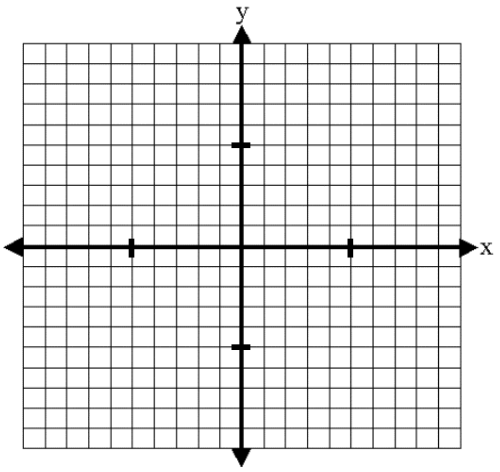
domain_____range_____

x-intercept(s) _____

y-intercept _____

f(-4)= _____

If f(x)=-3, then x=_____



3. f(x) = 4 – x^2

x	f(x)
-2	
-1	
0	
1	
2	

type of function_____

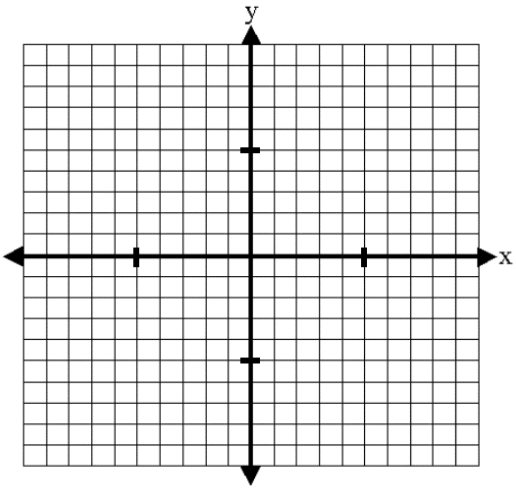
domain_____range_____

x-intercept(s) _____

y-intercept _____

f(-3)=_____

If f(x)=1, then x=_____



4. **f(x) = $\sqrt{x-2}$ + 3**

x	f(x)
2	
3	
6	
11	
18	

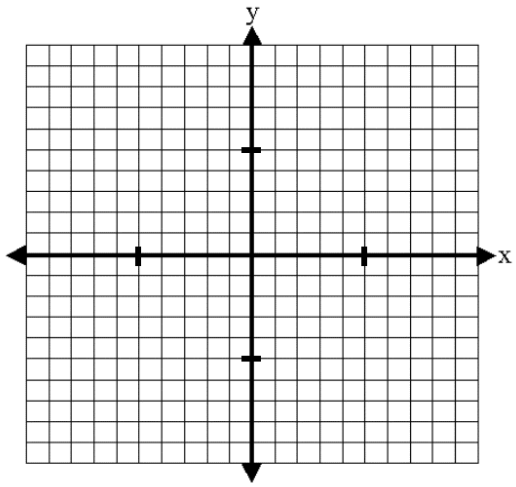
type of function_____

domain_____range_____

x-intercept(s) _____

y-intercept _____

f(27)=_____



5. **f(x) = -x**

x	f(x)
-2	
-1	
0	
1	
2	

type of function_____

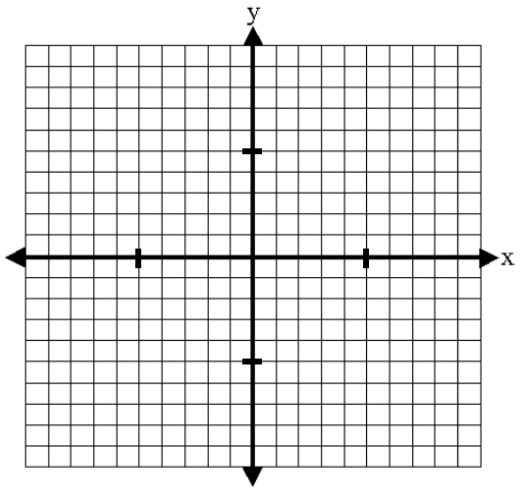
domain_____range_____

x-intercept(s) _____

y-intercept _____

f(-10)=_____

If f(x)= -5, then x=_____



6. **y = $|x|$**

x	y
-2	
-1	
0	
1	
2	

type of function_____

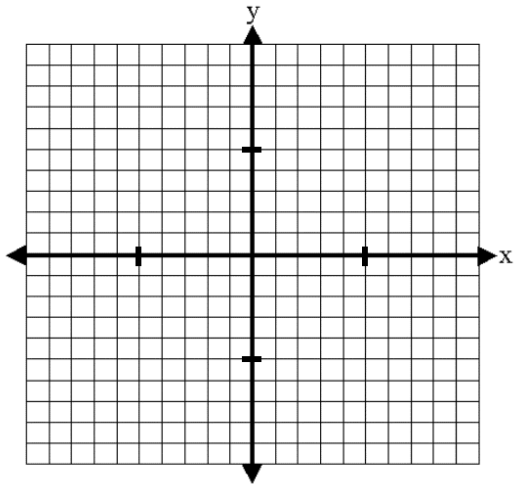
domain_____range_____

x-intercept(s) _____

y-intercept _____

f(15)=_____

If f(x)= 4, then x=_____



7. **f(x) =** $(x+1)^2$

x	f(x)
-3	
-2	
-1	
0	
1	

type of function_____

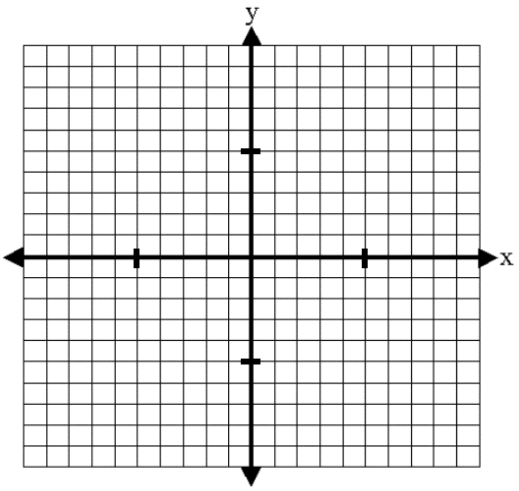
domain_____range_____

x-intercept(s) _____

y-intercept _____

f(5)=_____

If f(x)= 4, then x=_____



8. **f(x) =** $2\sqrt{x}+1$

x	f(x)
0	
1	
4	
9	

type of function_____

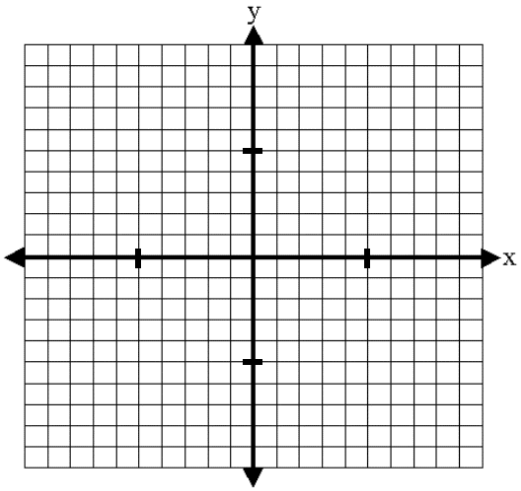
domain_____range_____

x-intercept(s) _____

y-intercept _____

f(49)=_____

If f(x)= 7, then x=_____



9. **y =** $|x|+5$

x	y
-2	
-1	
0	
1	
2	

type of function_____

domain_____range_____

x-intercept(s) _____

y-intercept _____

If x= 8, then f(8)=_____

If f(x)=10, then x=_____