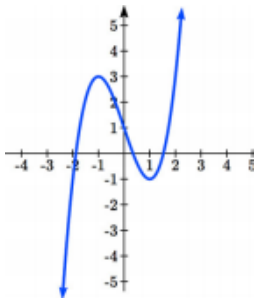
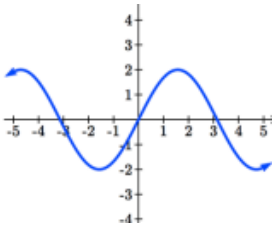
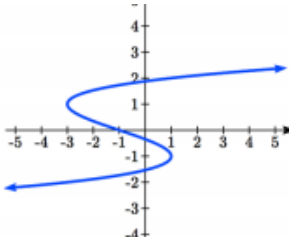
Name:_____Per:_____ Date:_____

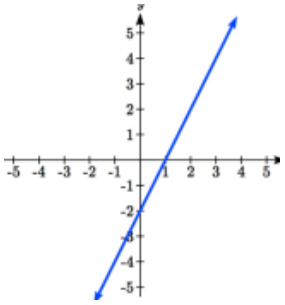
10 Point Test Review – Functions

Select all of the following graphs which represent y as a function of x.









Select all of the following tables which represent y as a function of x.

a.

x	y
-4	-2
3	2
6	4
9	7
12	16

b.

x	y
-5	-3
2	1
2	4
7	9
11	10

c.

x	y
-1	-3
1	2
5	4
9	8
1	2

d.

x	y
-1	-5
3	1
5	1
8	7
14	12

Select all of the following tables which represent y as a function of x.

a.

x	y
0	-2
3	1
4	6
8	9
3	1

b.

x	y
-1	-4
2	3
5	4
8	7
12	11

c.

x	y
0	-5
3	1
3	4
9	8
16	13

d.

x	y
-1	-4
1	2
4	2
9	7
12	13

Based on the table below,

a. Evaluate $f(8)$ b. Solve $f(x)=7$

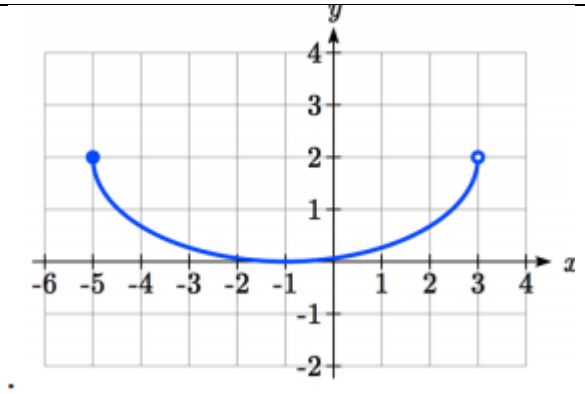
x	0	1	2	3	4	5	6	7	8	9
$f(x)$	62	8	7	38	86	73	70	39	75	34

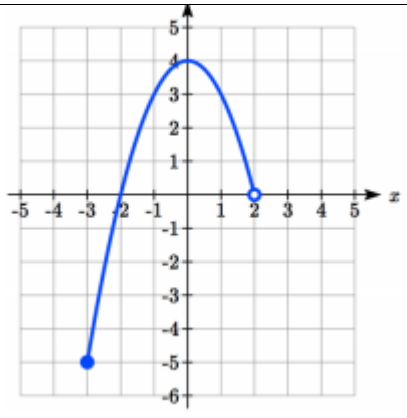
For each of the following functions, evaluate: $f(-2)$, $f(-1)$, $f(0)$, $f(1)$, and $f(2)$

$f(x)=5x^4+x^2$

$f(x)=(x-2)(x+3)$

Write the domain and range of the function using interval notation.





If $f(x)=3x-5$ and $g(x)=x^2$, find $(f\circ g)(3)$

If $f(x)=-9x-9$ and $g(x)=\sqrt{x-9}$, find $(f\circ g)(10)$

If $f(x)=-4x+2$ and $g(x)=\sqrt{x-8}$, find $(f\circ g)(12)$

If $f(x)=-2x+1$ and $g(x)=\sqrt{x^2-5}$, find $(g\circ f)(2)$

If $f(x)=-3x+4$ and $g(x)=x^2$, find $(g\circ f)(-2)$

Given $f(x)=x-1$ and $g(x)=x^2+2x-8$, find $(g\circ f)(x)$

Given $f(x)=4x+3$ and $g(x)=x^2$, find $(g\circ f)(x)$

Given $f(x)=x^2+7$ and $g(x)=x-3$, find $(f\circ g)(x)$

Given $f(x)=2x-5$ and $g(x)=x+2$, find $(f\circ g)(x)$

Given $f(x)=-9x+3$ and $g(x)=x^4$, find $(f\circ g)(x)$