

Chapter 4 Review

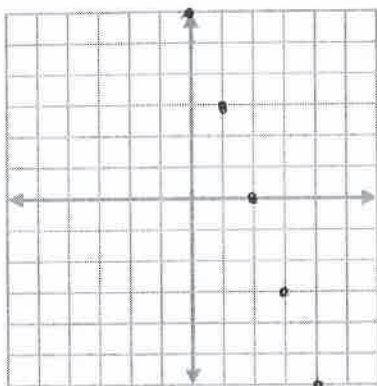
Name _____

KEY

Graph each function below.

1. $y = 6 - 3x$

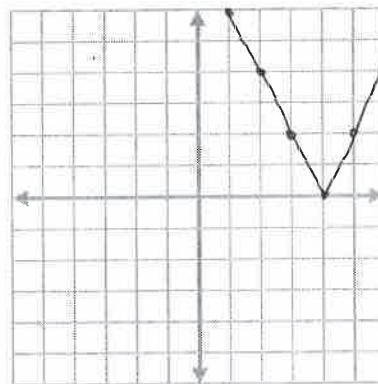
x	y
-3	15
-2	12
-1	9
0	6
1	3
2	0
3	-3
4	-6



Circle on the graph the value of y when x=3

2. $d(t) = |8 - 2t|$

t	d(t)
0	8
1	6
2	4
3	2
4	0
5	2
6	4
7	6
8	8

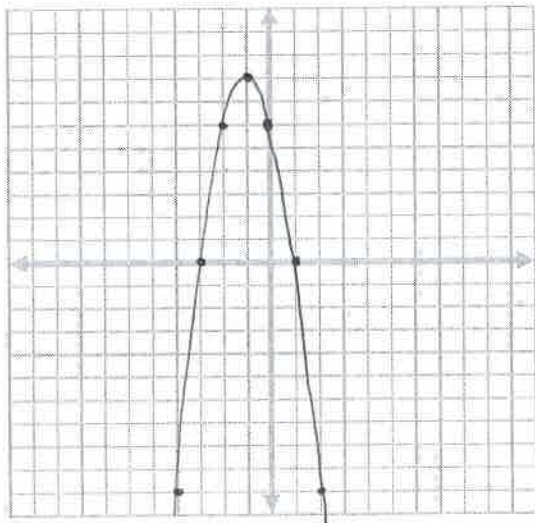


Circle on the graph the value of t when d(t)=6

3. $h(t) = -2t^2 - 4t + 6$

$-2(t+3)(t-1)$
 $-2(t^2 + 2t - 3)$

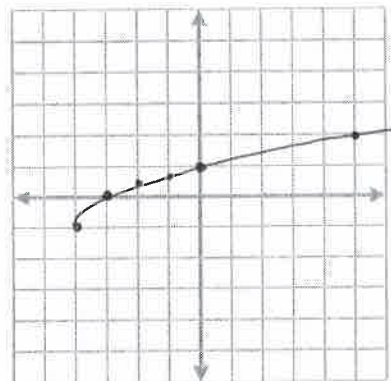
t	h(t)
-2	6
-1	8
0	6
1	0
2	-10
-3	0
-4	-10



Use the graph to find h(t) when t=3

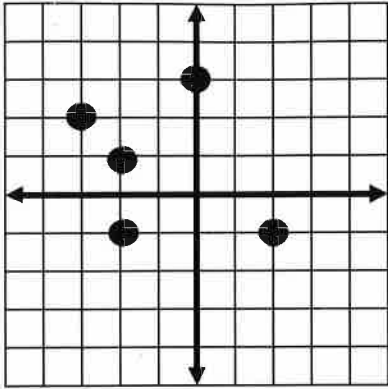
4. $f(x) = -1 + \sqrt{x+4}$

x	f(x)
-4	-1
-3	0
-2	.4
-1	.7
0	1
5	2



Give the domain and range then decide if the relation is a function. You must explain why or why not!

5.



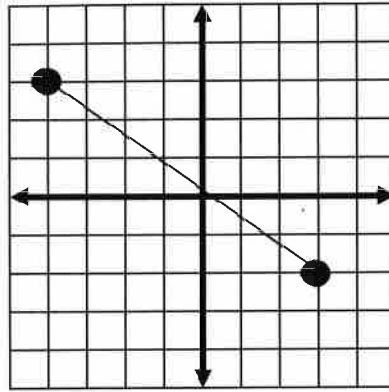
Domain: $\{-2, -1, 0, 2\}$

Range: $\{-1, 1, 2, 3\}$

Is it a function? Y or N

Why: Fail the vertical line test.
(one x-value (-1) has more than one y-value)

6.



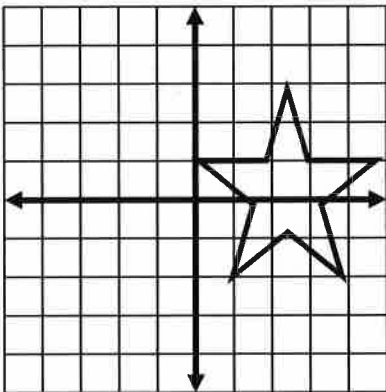
Domain: $-4 \leq x \leq 2$

Range: $\{-2 \leq y \leq 3\}$

Is it a function? Y or N

Why: Passes the vertical line test

7.



Is it a function? Y or N

Why: Fail the vertical line test