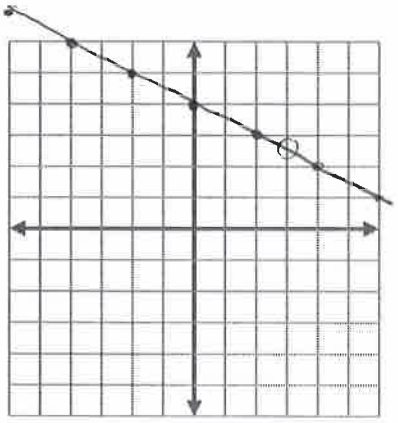
Mastery Alg 1 Chapter 4 Review 2 Name KEY

Graph each function below.

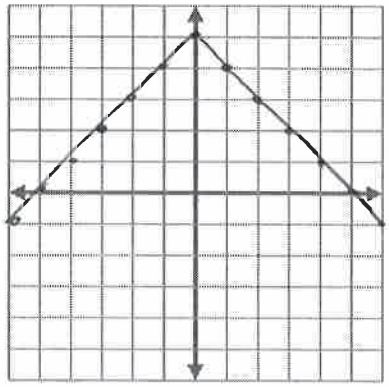
1. $y = -\frac{1}{2}x + 4$

x	y
-6	7
-4	6
-2	5
0	4
2	3
4	2
6	1



2. $d(t) = 5 - |t|$

t	$d(t)$
-3	2
-2	3
-1	4
0	5
1	4
2	3
3	2



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

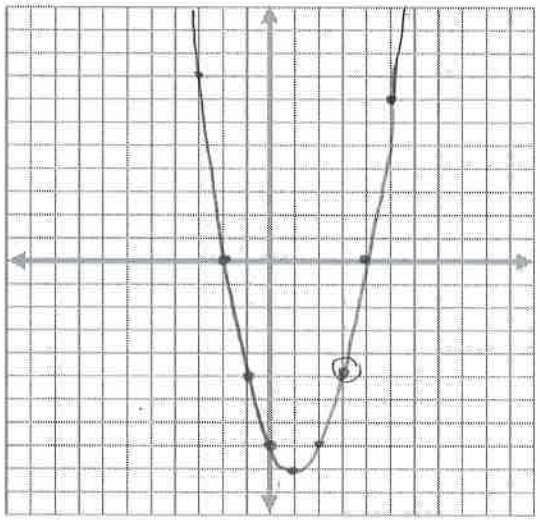
(3, 2.5)

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

no such value!

3. $h(t) = t^2 - 2t - 8$

t	$h(t)$
-2	0
-1	-5
0	-8
1	-9
2	-8
3	-5
4	0
5	7



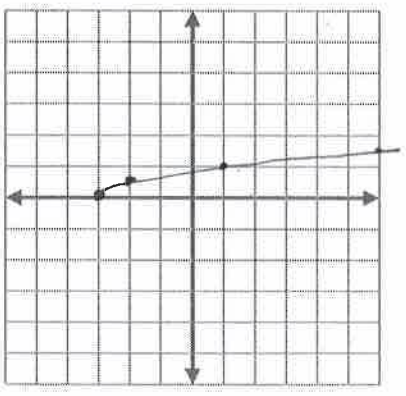
Use the graph to find $h(t)$ when $t = 3$

$h(3) = -5$

(3, -5)

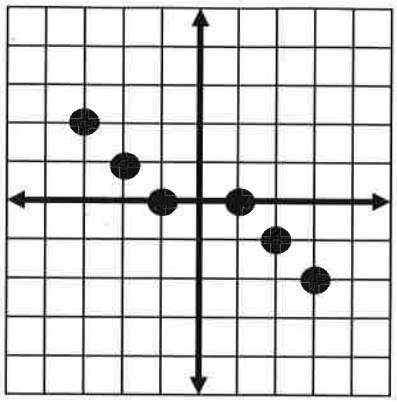
4. $f(x) = \frac{1}{2}\sqrt{x+3}$

x	$f(x)$
-3	0
-2	$\frac{1}{2}$
1	1
6	$1\frac{1}{2}$



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

5.



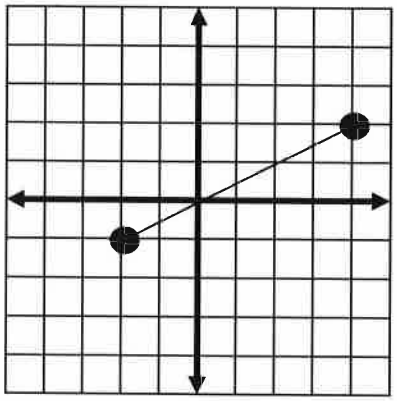
Domain: $\{-3,-2,-1,1,2,3\}$

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

Is it a function? (Y) or N

Why: Each x has only one y

6.



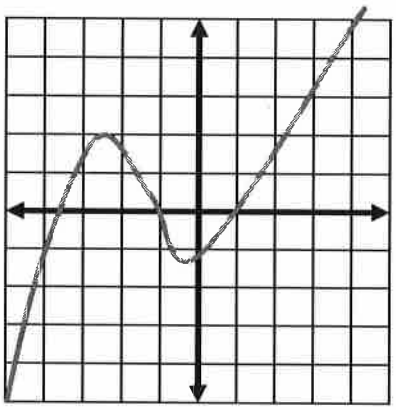
Domain: $-2 \leq x \leq 4$

Range: $-1 \leq y \leq 2$

Is it a function? (Y) or N

Why: Graph passes the vertical line test

7.



Is it a function? (Y) or N

Why: Graph passes the vertical line test