

1. State whether or not each of the following is a function. [7]

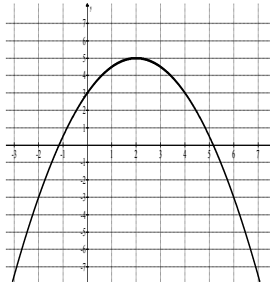
a)

x	y
2	3
4	3
5	2
7	1

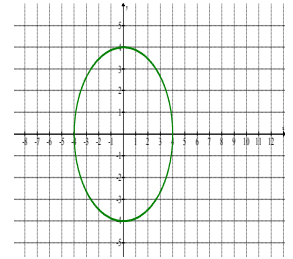
b)

x	y
1	4
1	2
2	3
3	5

c)



d)

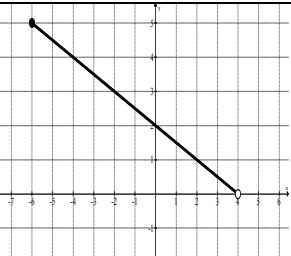


e)  $y = 3x - 2$

f)  $f(x) = 5x^2 - 7x + 3$

g)  $y = \pm\sqrt{x-4}$

2. State the domain and range of each relation. [8]

relation	Domain	Range
$\{(2,3),(-1,4),(0,3),(3,4)\}$		
$f(x) = 2(x-5)^2 + 7$		
		
$y = \sqrt{x-2}$		

3. Given  $f(x) = 2x^2 - 7x + 3$  and  $g(x) = 2x - 1$ , determine: [1,2,3]

a)  $f(3)$

b)  $f(g(2))$

c)  $x$  when  $f(x)=18$