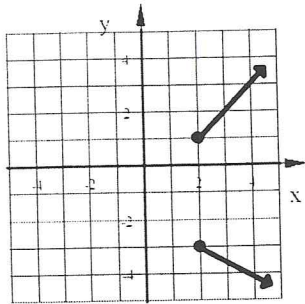
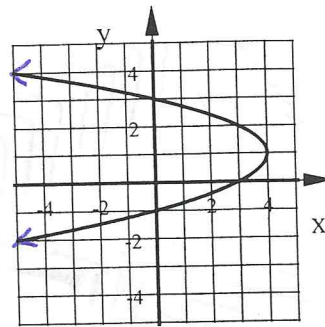


1. Write the domain and range of each graph.

a.



b.



2. Use these functions:

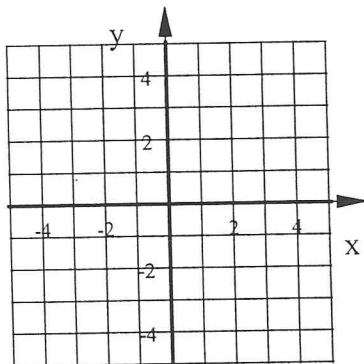
$$k(d) = -3d^2 + 4d \quad \text{and} \quad g(s) = 4s - 12$$

a) Find $10k(2) - 5g(6)$

b) Find s if $g(s) = 18$

3. Graph this function with at least 5 points.

$$f(x) = x^2 - 6x + 5$$



4. Write a function rule for the data in each table.

a)

x	y
-6	21
-4	14
0	0
8	-28

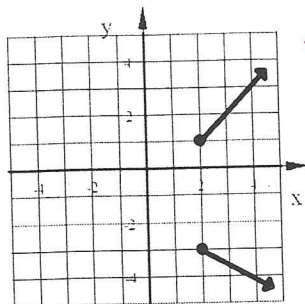
b)

x	y
-8	3
-5	6
0	11
3	14

ANSWERS

1. Write the domain and range of each graph.

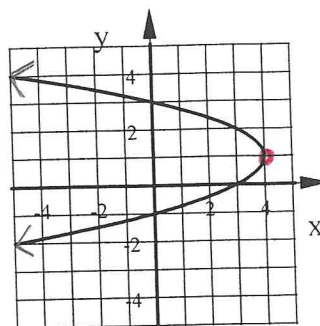
a.



Domain
 $x \geq 2$

Range
 $y \geq 1, y \leq -3$

b.



Domain
 $x \leq 4$

Range
All Real #s

2. Use these functions: $k(d) = -3d^2 + 4d$ and $g(s) = 4s - 12$

a) Find $10k(2) - 5g(6) = -100$

$$\begin{aligned} k(2) &= -3(2)^2 + 4(2) \\ &= -3(4) + 4(2) \\ &= -12 + 8 = -4 \end{aligned}$$

$$g(6) = 4(6) - 12 = 24 - 12 = 12$$

$$\begin{aligned} 10k(2) - 5g(6) &= 10(-4) - 5(12) \\ &= -40 - 60 = -100 \end{aligned}$$

b) Find s if $g(s) = 18$

$$18 = 4s - 12$$

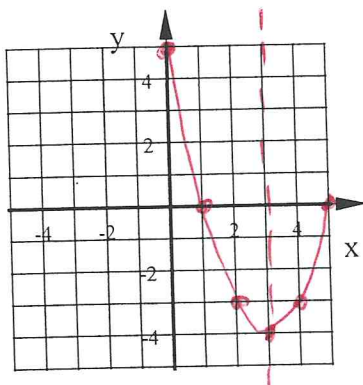
$$+12 \quad +12$$

$$\frac{30}{4} = \frac{4s}{4}$$

$$s = 7.5$$

3. Graph this function with at least 5 points.

$$f(x) = x^2 - 6x + 5$$



x	y
-2	21
-1	12
0	5
1	0
2	-3
3	-4
4	-3

4. Write a function rule for the data in each table.

a)

x	y
-6	21
-4	14
0	0
8	-28

$$y = -3.5x$$

b)

x	y
-8	3
-5	6
0	11
3	14

$$y = x + 11$$