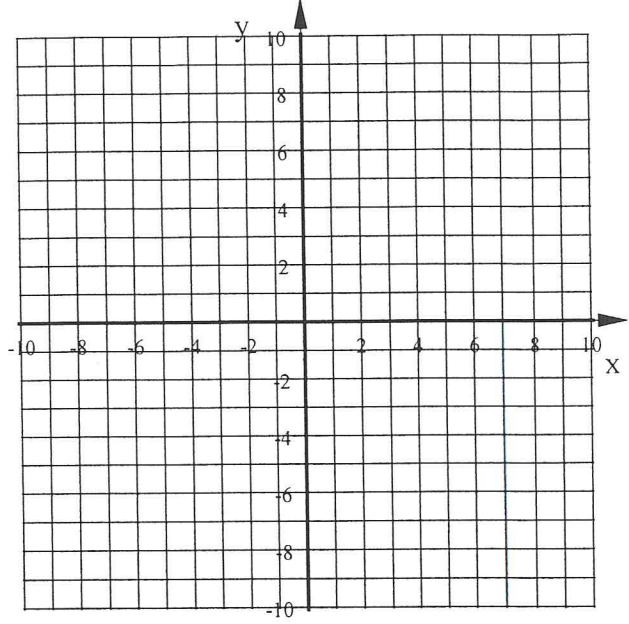
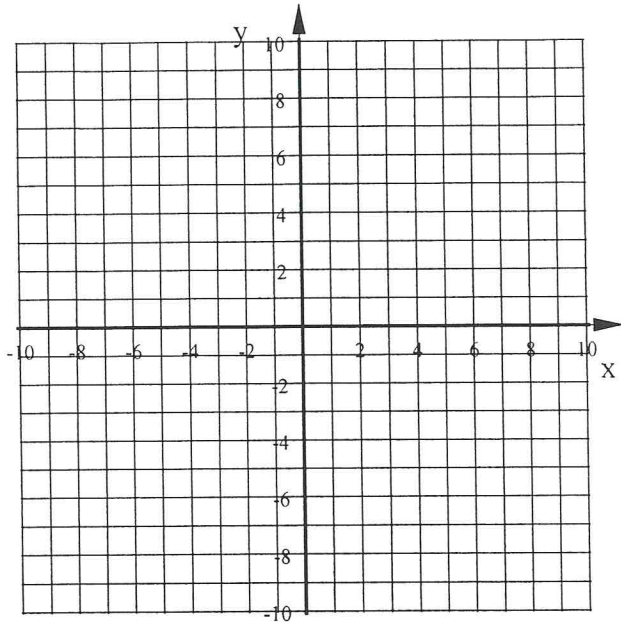


Graph each using at least 5 points. Make sure a picture of the whole shape of the graph is shown.

1. $f(x) = -3(x+2)^2 + 8$

2. $y = -4|x - 3| + 6$



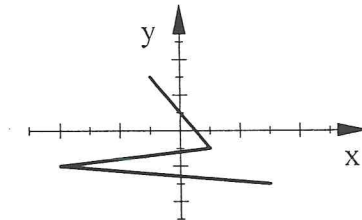
3. Is each relation a function?

a) $(-6, 4), (-2, 6), (1, 4), (5, -1), (2, 5)$

b) The table below

c) The graph below

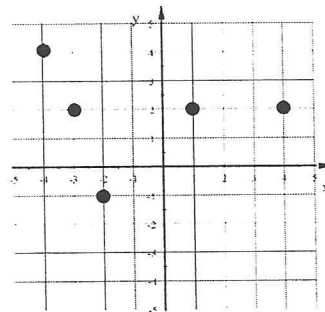
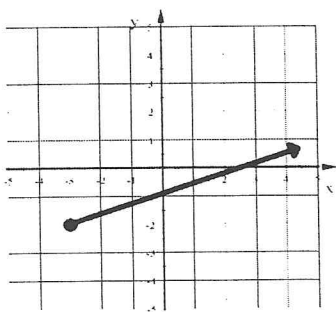
X	Y
8	6
-3	-9
2	-7
-3	4



4. State the domain and range of each graph.

a)

b)



5. Use these two functions: $h(m) = 3m^2 - 10$ $w(c) = 4c - 1$

a) Find $h(-4)$

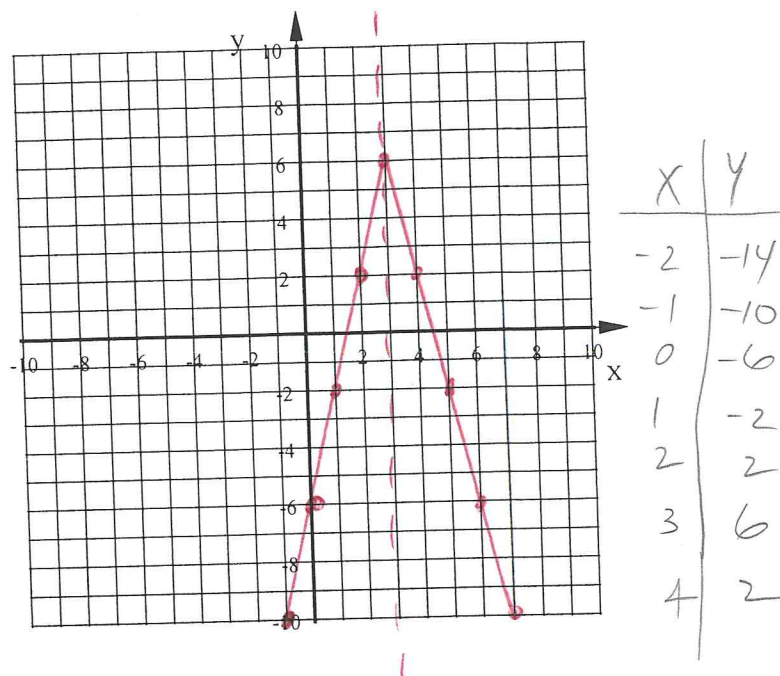
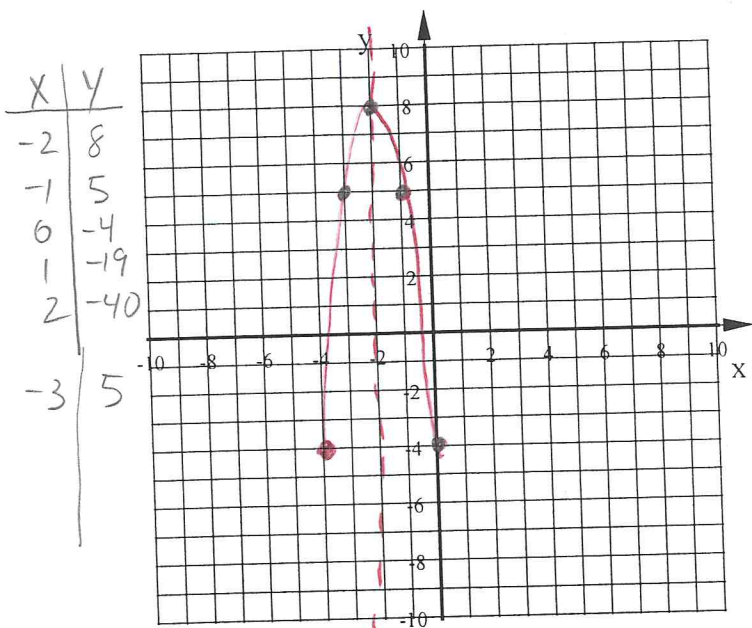
b) Find c if $w(c) = 25$

c) Find $10h(2) + w(2)$

Graph each using at least 5 points. Make sure a picture of the whole shape of the graph is shown.

1. $f(x) = -3(x+2)^2 + 8$

2. $y = -4|x-3| + 6$



3. Is each relation a function?

a) $(-6, 4), (-2, 6), (1, 4), (5, -1), (2, 5)$

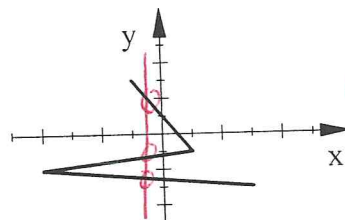
YES

b) The table below

c) The graph below

X	Y
8	6
-3	-9
2	-7
-3	4

NO

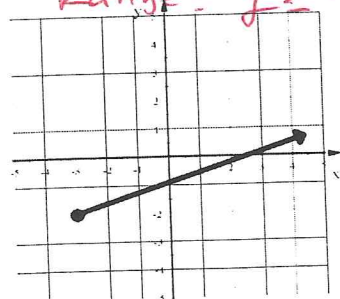


NO

4. State the domain and range of each graph.

a) Domain: $x \geq -3$

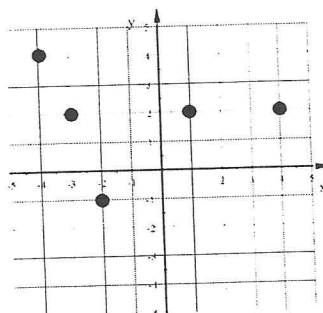
Range: $y \geq -2$



b)

Domain: $\{-4, -3, -2, 1, 4\}$

Range: $\{-1, 2, 4\}$



5. Use these two functions: $h(m) = 3x^2 - 10$ $w(c) = 4c - 1$

a) Find $h(-4)$

$$h(-4) = 3(-4)^2 - 10 = 3(16) - 10 = 48 - 10 = 38$$

b) Find c if $w(c) = 25$

$$25 = 4c - 1$$

$$26 = 4c$$

$$6.5 = c$$

c) Find $10h(2) + w(2)$

$$h(2) = 3(2)^2 - 10 = 2$$

$$w(2) = 4(2) - 1 = 7$$

$$10(2) + 7 = 20 + 7$$

$$= 27$$