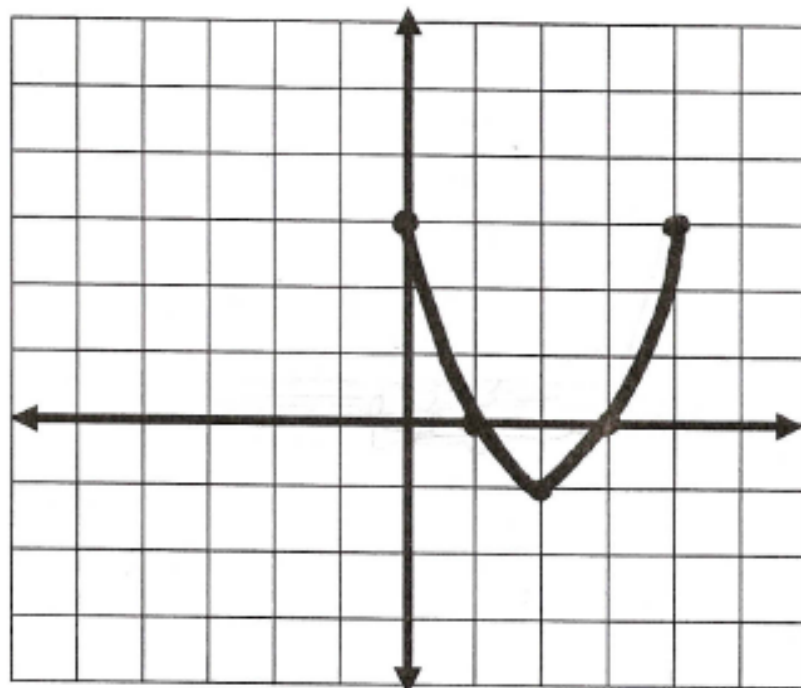


1.

Vertex: (2, -1)x-intercept(s): (1, 0) (3, 0)y-intercept: (0, 3)Maximum or Minimum: MinimumMax./Min. Value: (2, -1)Axis of Symmetry: $x = 2$ Domain: $\{x \mid 0 \leq x \leq 4, x \in \mathbb{R}\}$ Range: $\{y \mid -1 \leq y \leq 3, y \in \mathbb{R}\}$ 

2.

Vertex: $(-1, 2)$

x-intercept(s): $(0, 0)$ $(-2, 0)$

y-intercept: $(0, 0)$

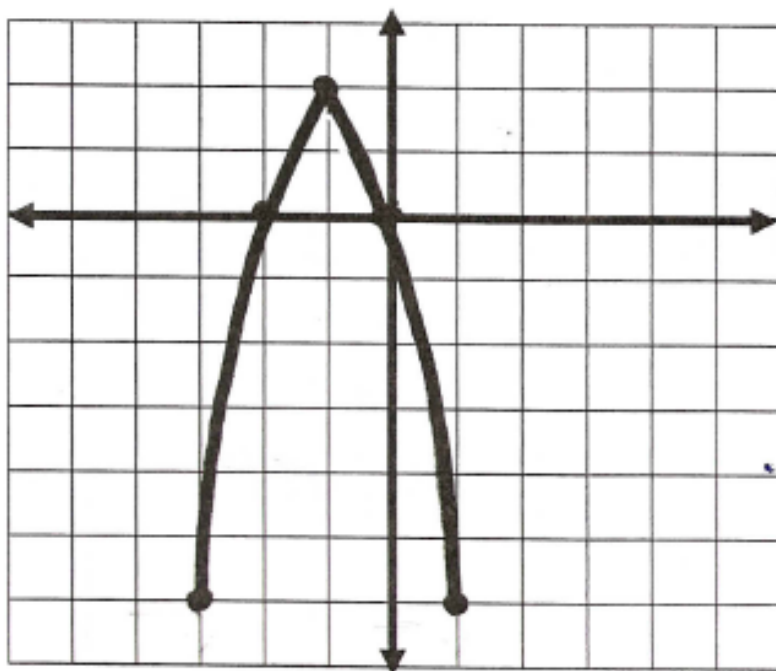
Maximum or Minimum: Maximum

Max./Min. Value: $(-1, 2)$

Axis of Symmetry: $x = -1$

Domain: $\{x \mid -3 \leq x \leq 1, x \in \mathbb{R}\}$

Range: $\{y \mid -6 \leq y \leq 2, y \in \mathbb{R}\}$



3.

Vertex: (2, 1)

x-intercept(s): No x-intercepts

y-intercept: (0, 4)

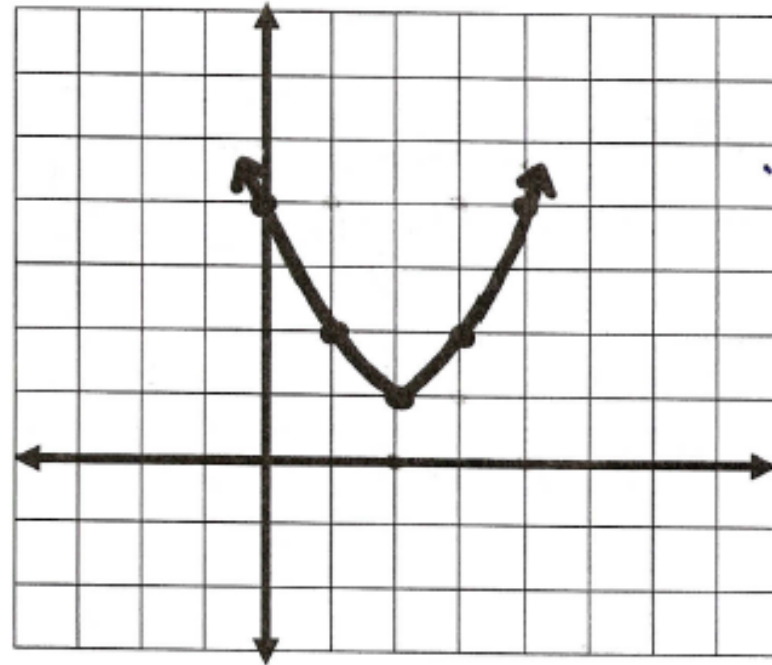
Maximum or Minimum: Minimum

Max./Min. Value: (2, 1)

Axis of Symmetry: $x = 2$

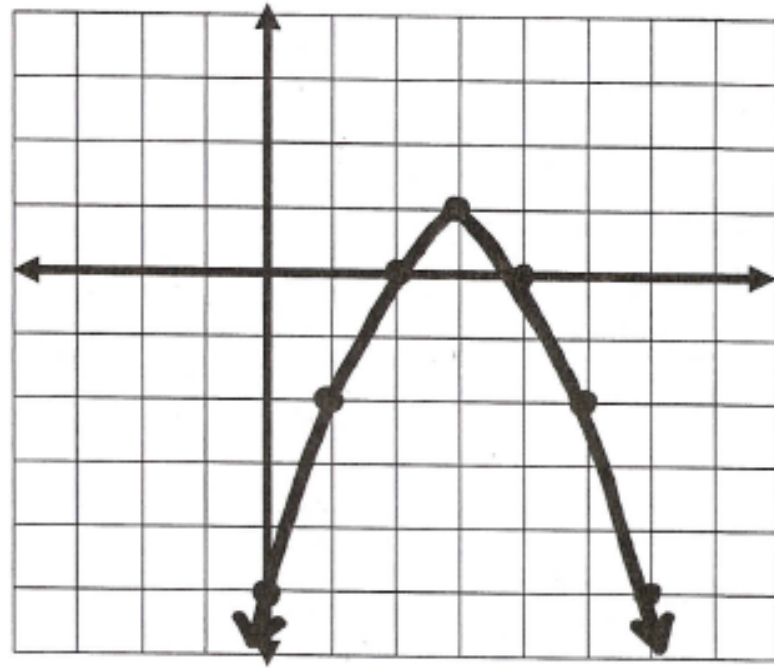
Domain: $\{x | x \in \mathbb{R}\}$

Range: $\{y | y \geq 1, y \in \mathbb{R}\}$



4.

Vertex: (3, 1)
x-intercept(s): (2, 0) (4, 0)
y-intercept: (0, -5)
Maximum or Minimum: Maximum
Max./Min. Value: (3, 1)
Axis of Symmetry: $x = 3$
Domain: $\{x \mid x \in \mathbb{R}\}$
Range: $\{y \mid y \leq 1, y \in \mathbb{R}\}$



5.

Vertex: $(0,0)$

x-intercept(s): $(0,0)$

Max./Min. Value: $(0,0)$

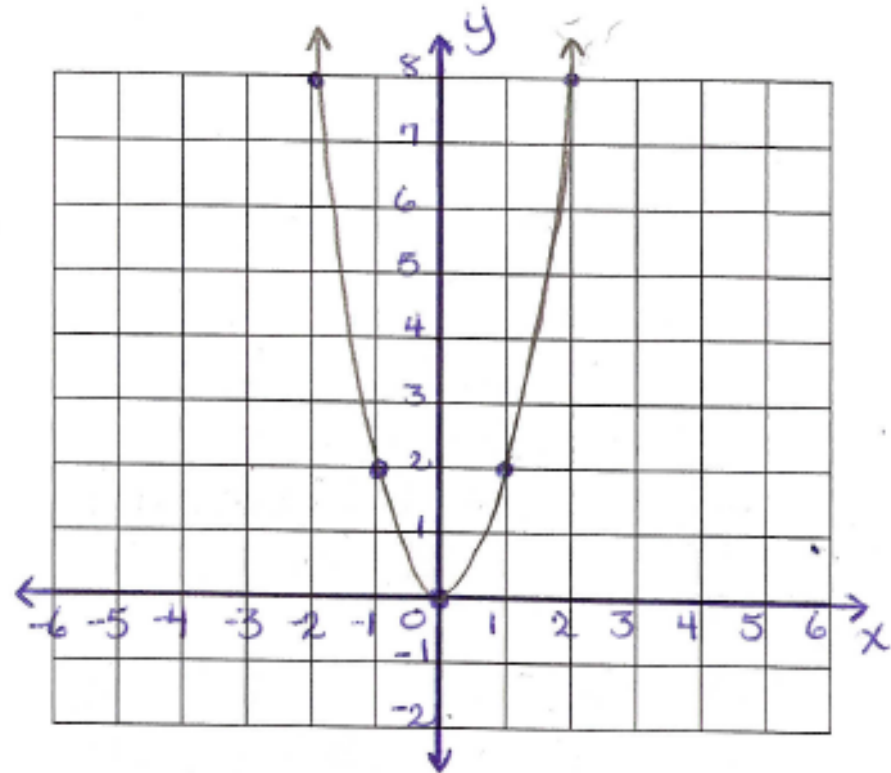
Axis of Symm: $x=0$

Domain: $\{x | x \in \mathbb{R}\}$

Range: $\{y | y \geq 0, y \in \mathbb{R}\}$

$$y = 2x^2$$

x	y
-2	8
-1	2
0	0
1	2
2	8

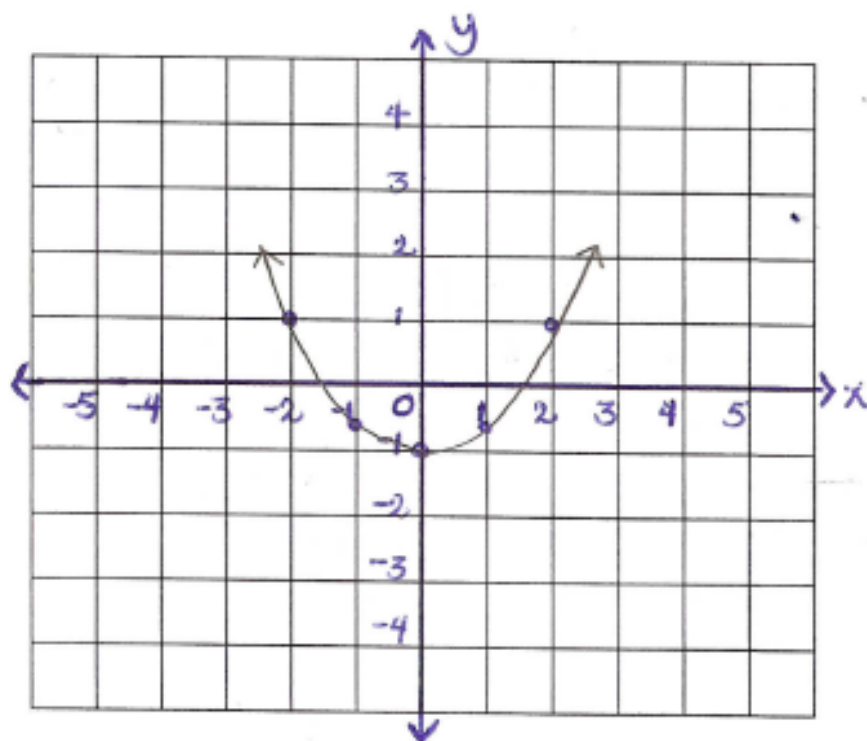


6.

$$y = \frac{1}{2}x^2 - 1$$

Vertex: $(0, -1)$ Approx. x-intercept(s): $(1.5, 0)$ $(-1.5, 0)$ Max./Min. Value: $(0, -1)$ Axis of Symm: $x = 0$ Domain: $\{x | x \in \mathbb{R}\}$ Range: $\{y | y \geq -1, y \in \mathbb{R}\}$

x	y
-2	1
-1	$-\frac{1}{2}$
0	-1
1	$-\frac{1}{2}$
2	1

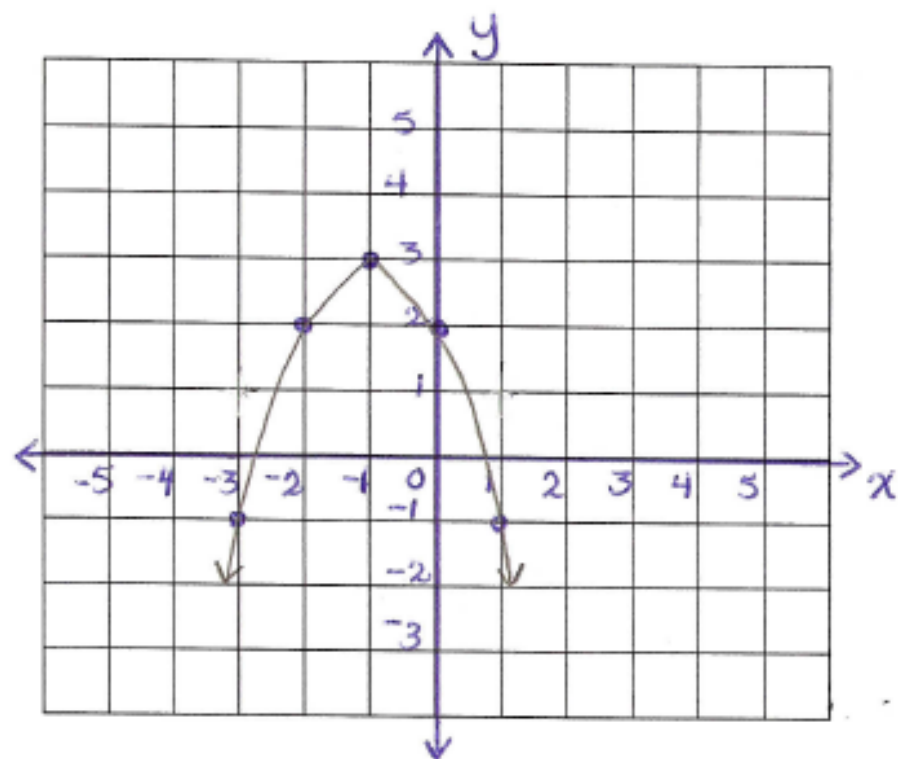


7.

$$y = -(x+1)^2 + 3$$

Vertex: $(-1, 3)$ Max./Min. Value: $(-1, 3)$ Axis of Symm: $x = -1$ Domain: $\{x | x \in \mathbb{R}\}$ Range: $\{y | y \leq 3, y \in \mathbb{R}\}$

x	y
-3	-1
-2	2
-1	3
0	2
1	-1
2	-6

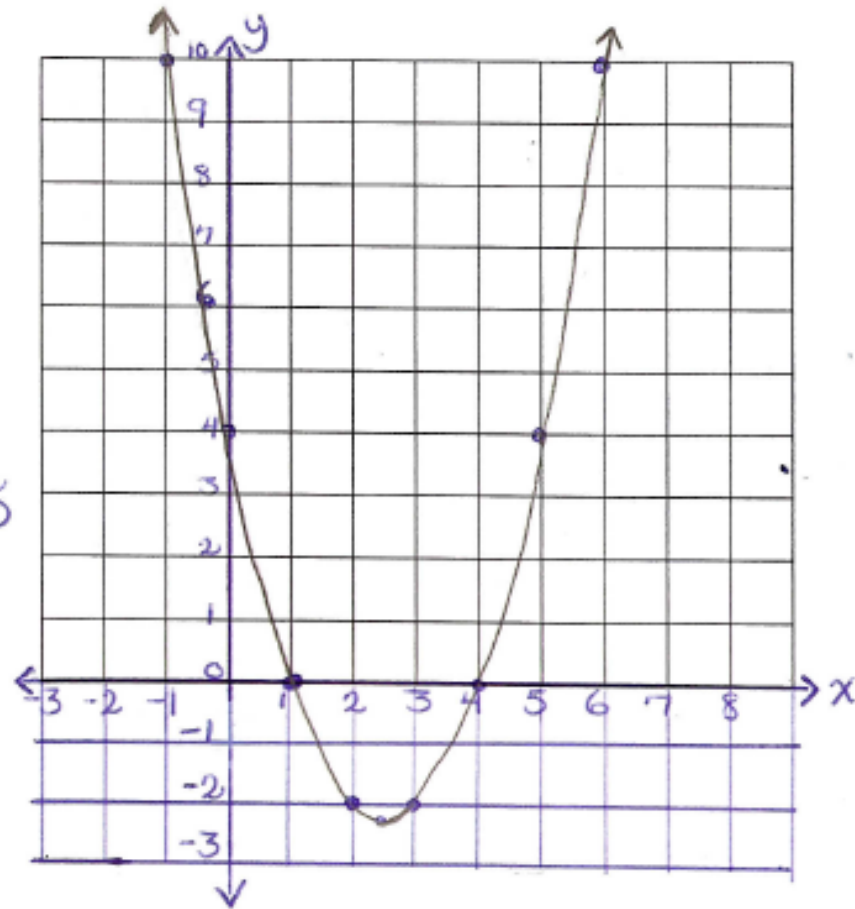


8.

$$y = x^2 - 5x + 4$$

Vertex: $(2.5, -2.25)$ x-intercept(s): $(1, 0)$ $(4, 0)$ Max./Min. Value: $(2.5, -2.25)$ Axis of Symm: $x = 2.5$ Domain: $\{x | x \in \mathbb{R}\}$ Range: $\{y | y \geq -2.25, y \in \mathbb{R}\}$

x	y
-1	10
0	4
1	0
2	-2
2.5	-2.25
3	-2
4	0
5	4
6	10



9.

$$y = -x^2 + 6x - 5, -1 \leq x \leq 7$$

Vertex: (3, 4)

x-intercept(s): (1, 0) (5, 0)

Max./Min. Value: (3, 4)

Axis of Symm: x = 3

Domain: {x | -1 ≤ x ≤ 7, x ∈ ℝ}

Range: {y | -12 ≤ y ≤ 4, y ∈ ℝ}

x	y
-1	-12
0	-5
1	0
2	3
3	4
4	3
5	0
6	-5
7	-12

