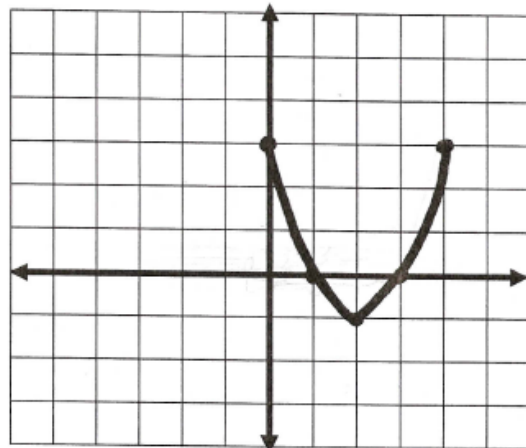


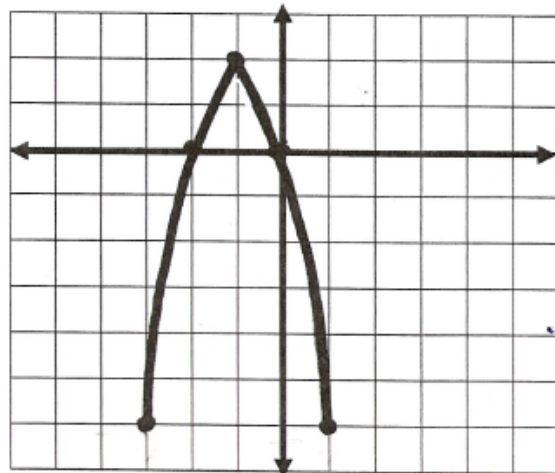
1.

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



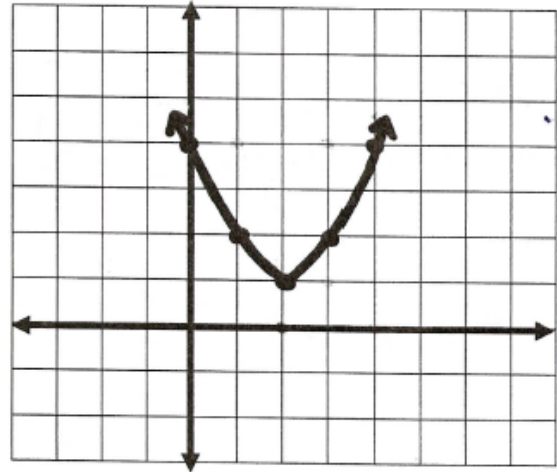
2.

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



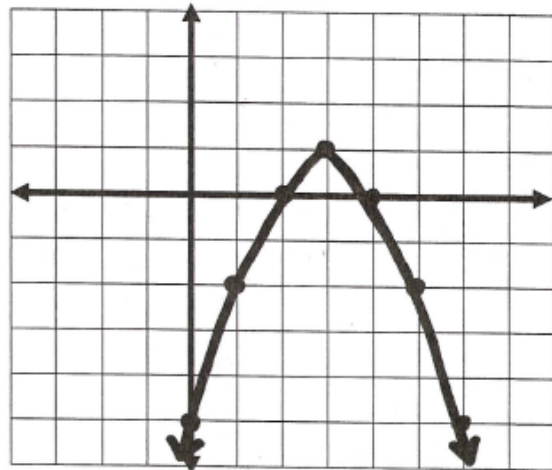
3.

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 ∈ ℝ}
Range: {y | y ≥ 1, y ∈ 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 | x ∈ ℝ}
Range: {y | y ≤ 1, y ∈ ℝ}



5.

$$y = 2x^2$$

Vertex: (0,0)

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

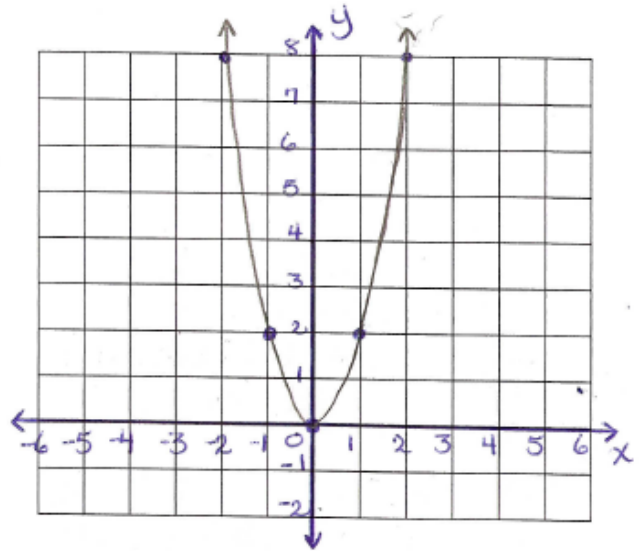
Max./Min. Value: (0,0)

Axis of Symm: x=0

Domain: {x | x ∈ ℝ}

Range: {y | y ≥ 0, y ∈ ℝ}

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)

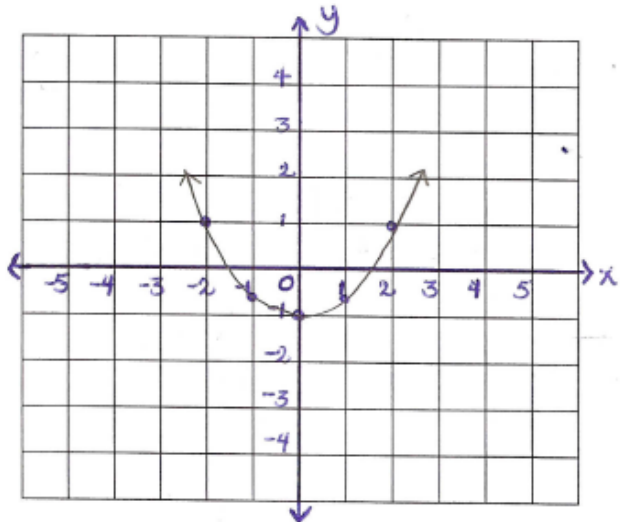
Max./Min. Value: (0,-1)

Axis of Symm: x=0

Domain: {x | x ∈ ℝ}

Range: {y | y ≥ -1, y ∈ ℝ}

x	y
-2	1
-1	-1/2
0	-1
1	-1/2
2	1



7.

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

Vertex: $(-1, 3)$

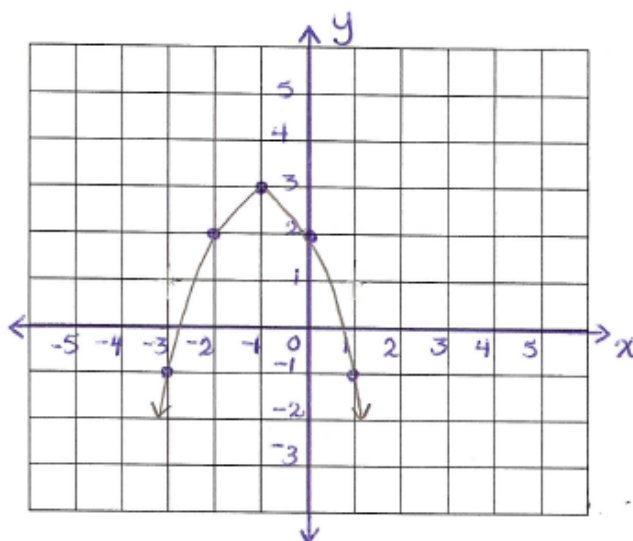
Max./Min. Value: $(-1, 3)$

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): $(1, 0)$ $(4, 0)$

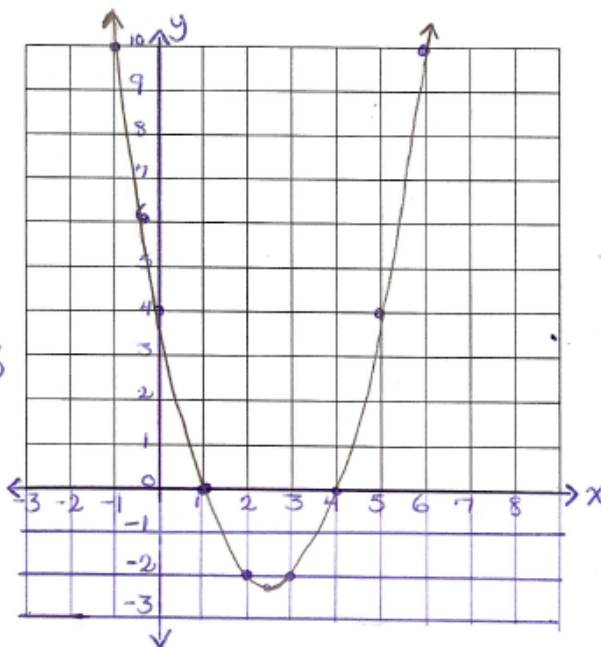
Max./Min. Value: $(2.5, -2.25)$

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: $\{x \mid -1 \leq x \leq 7, x \in \mathbb{R}\}$

Range: $\{y \mid -12 \leq y \leq 4, y \in \mathbb{R}\}$

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

