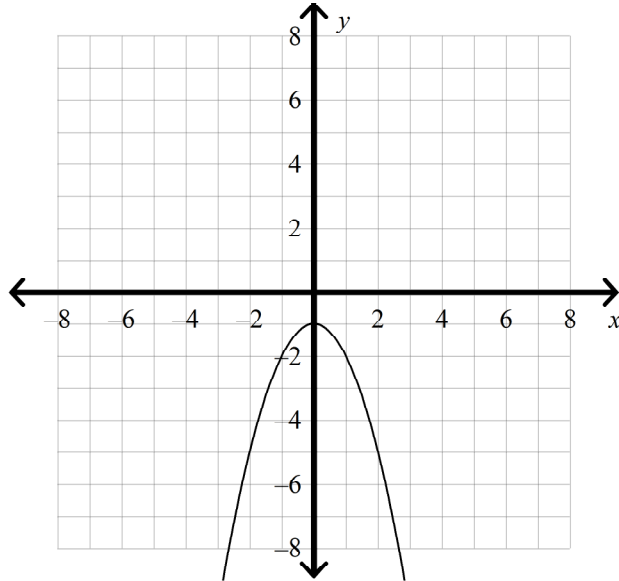


Exit Ticket: Quadratic Graphs and Their Properties

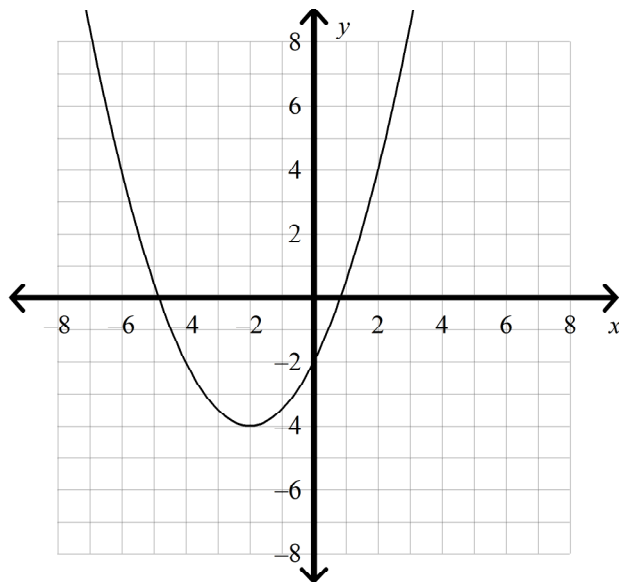
What are the coordinates of the vertex of the graph or table? Is it a maximum or minimum?

1



- Ⓐ (-1, 0); maximum
- Ⓒ (0, -1); maximum
- Ⓑ (-1, 0); minimum
- Ⓓ (0, -1); minimum

2



- Ⓐ (-4, -2); minimum
- Ⓒ (-2, -4); minimum
- Ⓑ (-2, -4); maximum
- Ⓓ (-4, -2); maximum

3

X	Y
0	1
-1	-2
-2	-3
-3	-2
-4	1

- (A) $(-4, 1)$; minimum (C) $(-2, -3)$; maximum
 (B) $(-2, -3)$; minimum (D) $(1, 0)$; maximum

Order the group of quadratic functions from widest to narrowest graph.

4

$$y = -4x^2, y = -3x^2, y = -5x^2$$

(A) $y = -3x^2, y = -5x^2, y = -4x^2$

(C) $y = -3x^2, y = -4x^2, y = -5x^2$

(B) $y = -5x^2, y = -4x^2, y = -3x^2$

(D) $y = -4x^2, y = -3x^2, y = -5x^2$

5

$$y = \frac{1}{4}x^2, y = -\frac{1}{2}x^2, y = \frac{3}{2}x^2$$

(A) $y = \frac{1}{4}x^2, y = \frac{3}{2}x^2, y = -\frac{1}{2}x^2$

(C) $y = \frac{1}{4}x^2, y = -\frac{1}{2}x^2, y = \frac{3}{2}x^2$

(B) $y = -\frac{1}{2}x^2, y = \frac{1}{4}x^2, y = \frac{3}{2}x^2$

(D) $y = \frac{3}{2}x^2, y = -\frac{1}{2}x^2, y = \frac{1}{4}x^2$

6

How is the graph of $y = 3x^2 + 3$ different from the graph of $y = 3x^2$?

 (A) It is shifted 3 unit(s) up.

 (C) It is shifted 3 unit(s) left.

 (B) It is shifted 3 unit(s) down.

 (D) It is shifted 3 unit(s) right.

7

How is the graph of $y = -4x^2 - 5$ different from the graph of $y = -4x^2$?

 (A) It is shifted 5 unit(s) right.

 (C) It is shifted 5 unit(s) up.

 (B) It is shifted 5 unit(s) left.

 (D) It is shifted 5 unit(s) down.

Exit Ticket: Quadratic Graphs and Their Properties
Answer Section

- 1 C
- 2 C
- 3 B
- 4 C
- 5 C
- 6 A
- 7 D