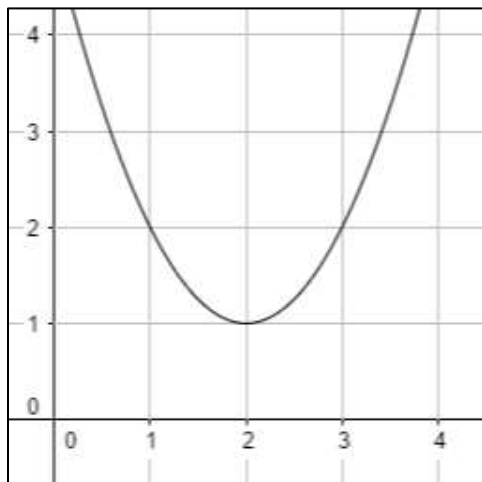


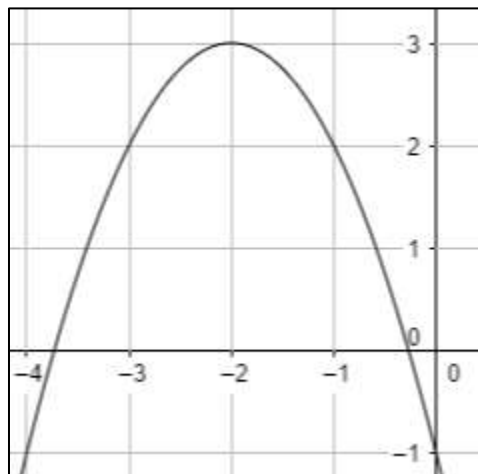
Quadratic Graphs and Their Properties Assignment

Identify the vertex of each graph. Also tell whether the vertex is a minimum or a maximum.

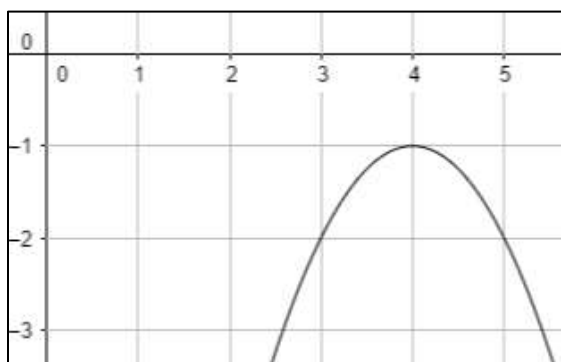
1.



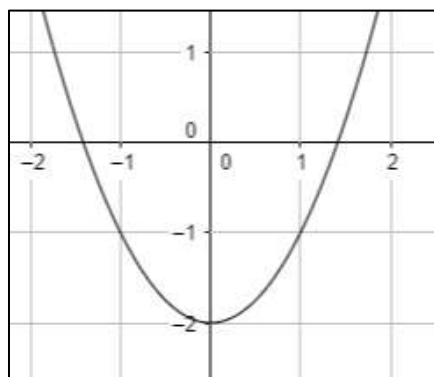
2.



3.



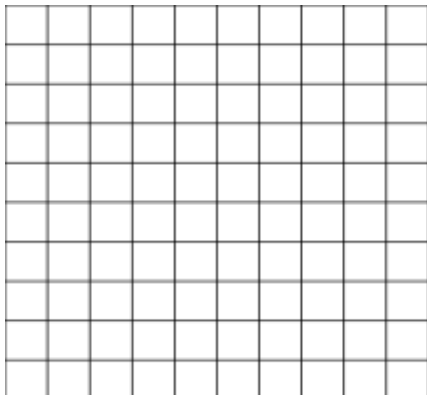
4.



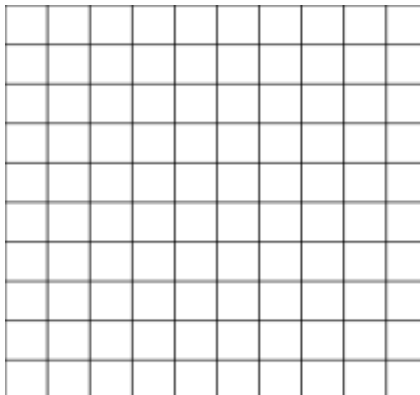
Quadratic Graphs and Their Properties Assignment

Graph each quadratic function.

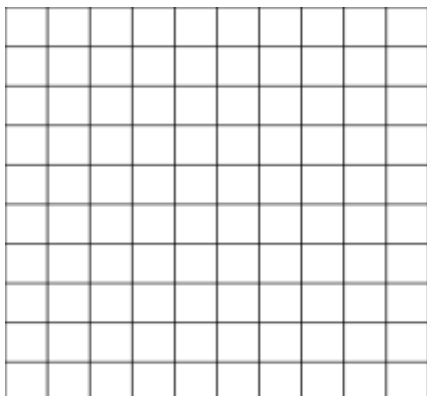
1. $y = 2x^2$



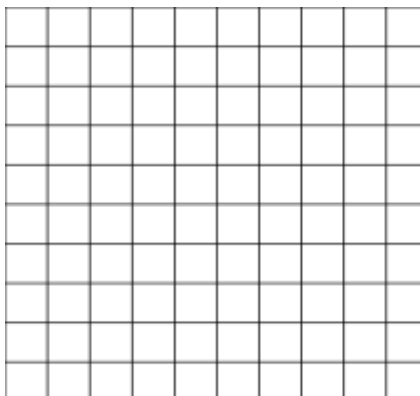
2. $y = -1.5x^2$



3. $y = x^2 - 1$



4. $y = -3x^2 + 2$



Identify the domain and range of each function.

1. $y = x^2$

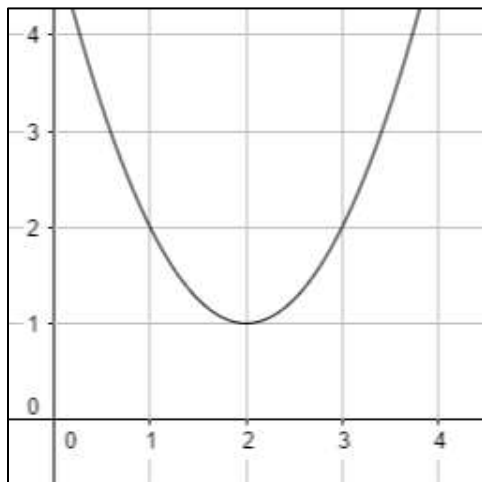
2. $y = x^2 - 3$

3. $y = 10x^2 + 0.5$

Quadratic Graphs and Their Properties Assignment

ANSWERS: Identify the vertex of each graph. Also tell whether the vertex is a minimum or a maximum.

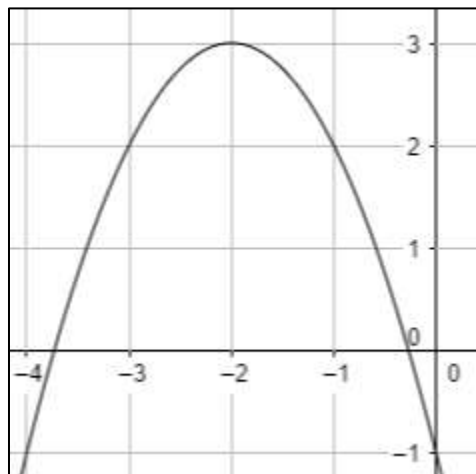
1.



Vertex = (2,1)

Parabola opens up, vertex is a minimum.

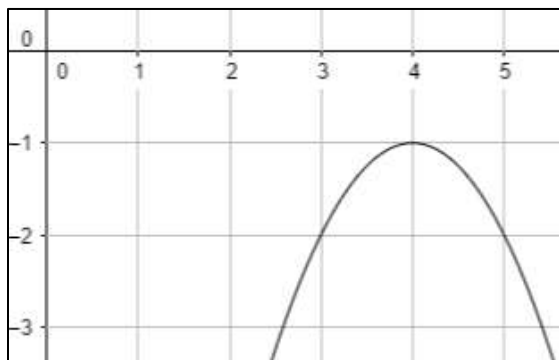
2.



Vertex = (-2,3)

Parabola opens down, vertex is a maximum.

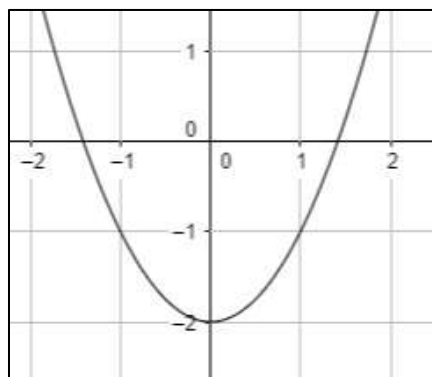
3.



Vertex = (4,-1)

Parabola opens down, vertex is a maximum.

4.



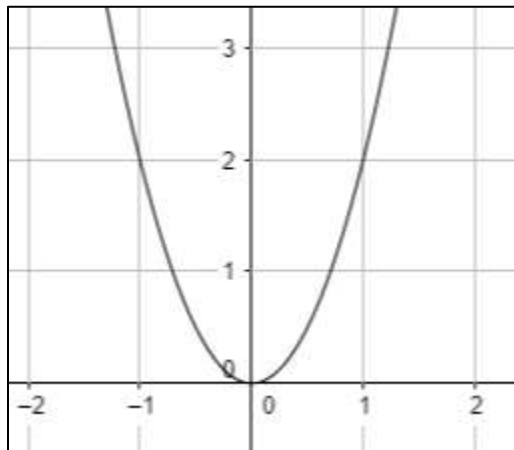
Vertex = (0,-2)

Parabola opens up, vertex is a minimum.

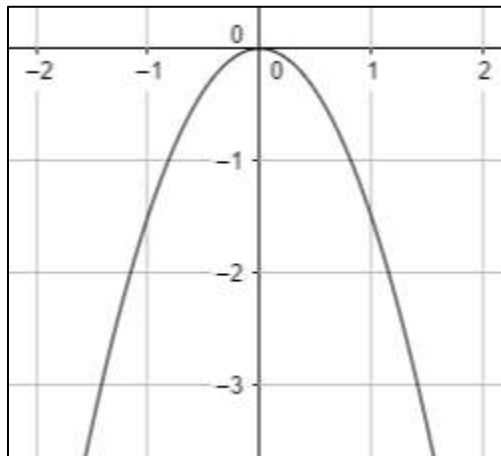
Quadratic Graphs and Their Properties Assignment

Graph each quadratic function.

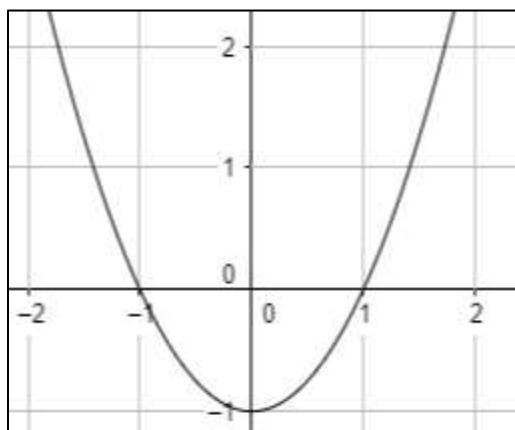
1. $y = 2x^2$



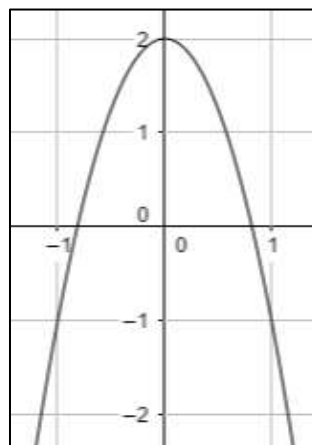
2. $y = -1.5x^2$



3. $y = x^2 - 1$



4. $y = -3x^2 + 2$



Identify the domain and range of each function.

1. $y = x^2$

Domain: set of all real numbers

Range: $y \geq 0$

Quadratic Graphs and Their Properties Assignment

2. $y = x^2 - 3$

Domain: set of all real numbers

Range: $y \geq -3$

3. $y = 10x^2 + 0.5$

Domain: set of all real numbers

Range: $y \geq 0.5$