

Name: _____ Hr: _____

Finding Parts of a Parabola

What are the Domain and Range for this quadratic graph?

Interval Notation:

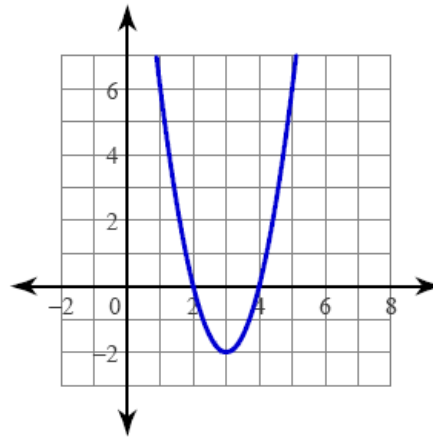
Domain: _____

Range: _____

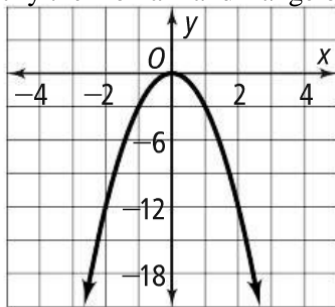
Set Builder Notation:

Domain: _____

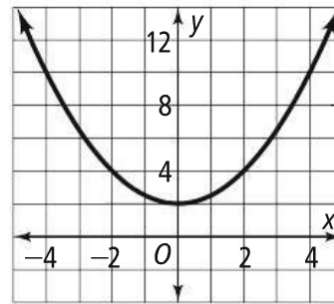
Range: _____



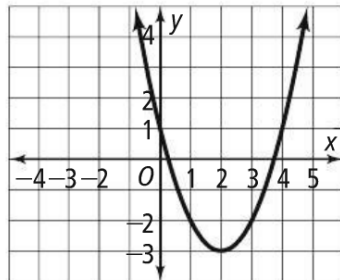
Identify the Domain and Range of each:



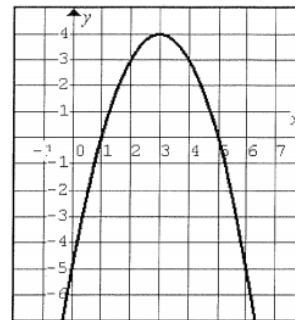
1. Domain: _____
Range: _____



2. Domain: _____
Range: _____



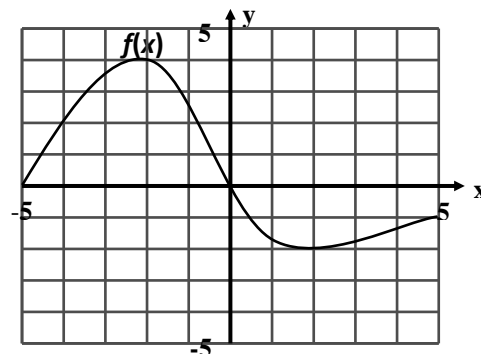
3. Domain: _____
Range: _____



4. Domain: _____
Range: _____

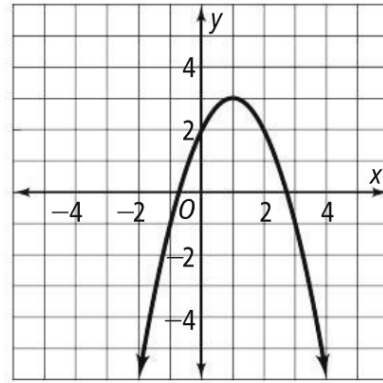
5. Given the graph of $f(x)$ at the right, find the following:

- a. $f(-4) =$ _____
- b. $f(0) =$ _____
- c. $f(3) =$ _____
- d. $f(-5) =$ _____
- e. x when $f(x) = -2$ _____
- f. x when $f(x) = 0$ _____



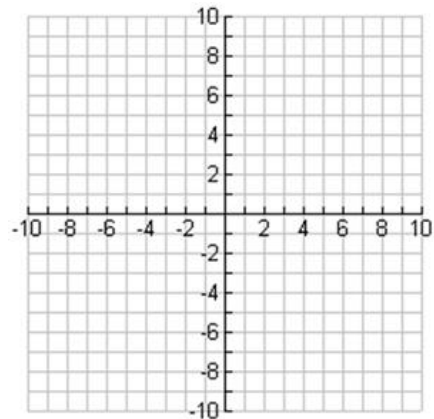
6. Given the graph at the right, find the following:

- Vertex: _____
- Axis of Symmetry: _____
- x-intercepts: _____
- y-intercept: _____
- Max/Min: _____
- Vertex Form of the Equation: _____
- $f(4) = \underline{\hspace{2cm}}$
- $f(0) = \underline{\hspace{2cm}}$
- $f(6) = \underline{\hspace{2cm}}$
- Domain: _____
- Range: _____
- Direction of opening: _____



7. Given the equation $f(x) = x^2 - 4x - 5$, find the following:

- Vertex: _____
- Axis of Symmetry: _____
- x-intercept(s): _____
- y-intercept: _____
- Max/Min: _____
- Sketch a graph
- $f(-2) = \underline{\hspace{2cm}}$
- Domain: _____
- Range: _____
- Direction of opening: _____



8. Given the equation $f(x) = 2(x - 4)^2 - 8$, find the following:

- Vertex: _____
- Axis of Symmetry: _____
- x-intercept(s): _____
- y-intercept: _____
- Max/Min: _____
- sketch a graph
- $f(3) = \underline{\hspace{2cm}}$
- Direction of opening: _____
- Domain: _____
- Range: _____

