



# Using Function Notation

Let's use function notation to talk about points.

## 3.1 Which Three Go Together: Function Notation

Which three go together? Why do they go together?

**A**

$$y = x$$

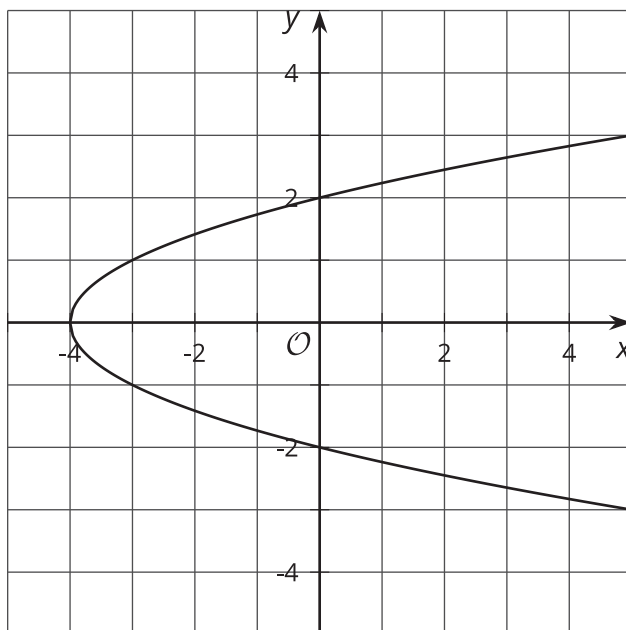
**B**

$$(0, 2)$$

**C**

$$f(x) = x + 2$$

**D**



## 3.2

## Points into Function Notation and Back

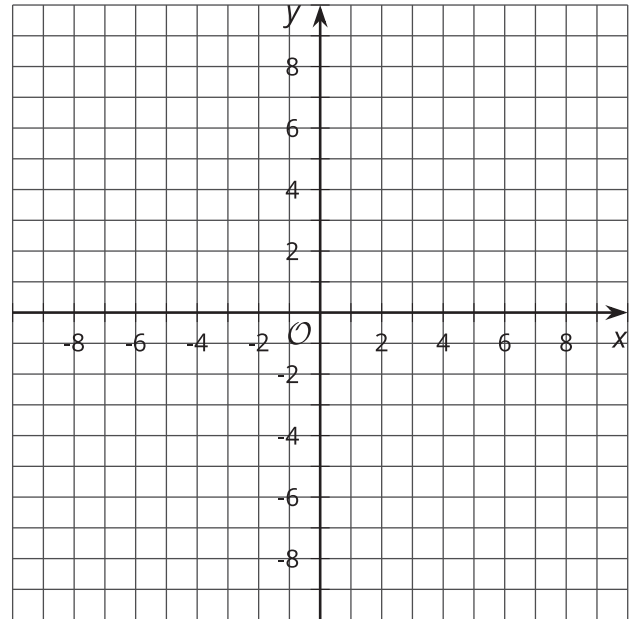
1. A graph, representing the function  $y = f(x)$ , has these points. Write each of these coordinate pairs in function notation.
  - a.  $(2, 3)$
  - b.  $(-1, 4)$
  - c.  $(0, 3)$
  - d.  $(4, 0)$
  - e.  $\left(\frac{2}{3}, \frac{3}{4}\right)$
  
2. A function is given by the equation  $h(x) = 5x - 3$ . Given values in function notation, write the coordinate pair for the point on the graph associated with each of those values.
  - a.  $h(3)$
  - b.  $h(-4)$
  - c.  $h\left(\frac{2}{5}\right)$



### 3.3 A Graph with Properties

1. Draw a graph of a function  $y = g(x)$  that has these properties:

- $g(0) = 2$
- $g(1) = 3$
- $(2, 3)$  is on the graph
- $g(5) = -1$



2. Han draws this graph for  $g(x)$ . What is the error?

