



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

$$y = x$$

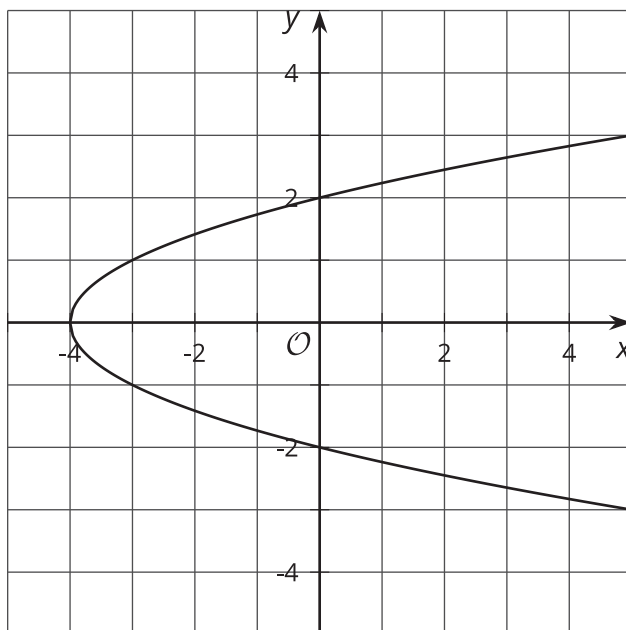
B

$$(0, 2)$$

C

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

D



3.2

Points into Function Notation and Back

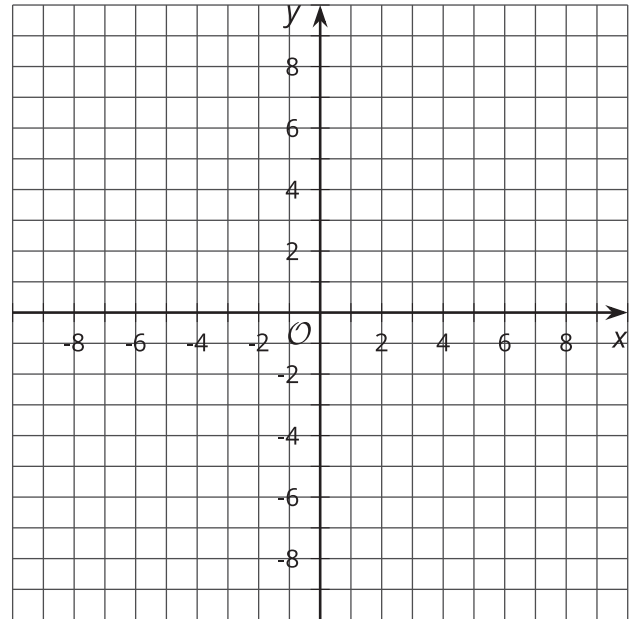
1. A graph, representing the function $y = f(x)$, has these points. Write each of these coordinate pairs in function notation.
 - a. $(2, 3)$
 - b. $(-1, 4)$
 - c. $(0, 3)$
 - d. $(4, 0)$
 - e. $\left(\frac{2}{3}, \frac{3}{4}\right)$

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?

