## Lesson 3: Using Function Notation

* Let’s use function notation to talk about points.

### 3.1: Which One Doesn’t Belong: Function Notation

Which one doesn’t belong?

* $f\left(0\right)=2$
* $\left(0,5\right)$
* $y=x+2$
* 

### 3.2: Points into Function Notation and Back

1. A function is given by the equation $y=f\left(x\right)$. Write each of these coordinate pairs in function notation.
	1. $\left(2,3\right)$
	2. $\left(-1,4\right)$
	3. $\left(0,3\right)$
	4. $\left(4,0\right)$
	5. $\left(\frac{2}{3},\frac{3}{4}\right)$
2. A function is given by the equation $h\left(x\right)=5x−3$. Write the coordinate pair for the point associated with the given values in function notation.
	1. $h\left(3\right)$
	2. $h\left(-4\right)$
	3. $h\left(\frac{2}{5}\right)$

### 3.3: A Graph with Properties

1. Draw a graph of function $y=g\left(x\right)$ that has these properties:
	* $g\left(0\right)=2$
	* $g\left(1\right)=3$
	* $\left(2,3\right)$ is on the graph
	* $g\left(5\right)=-1$
* 
1. Han draws this graph for $g\left(x\right)$. What is the error?
* 



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