Name _____ Date _____

In and Out Function Tables

In Algebra, the **function** of x is to produce y. That means when you know the value of x, you can **substitute** it into expressions and find the value of y. These values of x and y can be used to form **coordinate pairs** to graph.

Let's look at an example. In the in and out, or function, table below, x = 5. As you can see, 5 is substituted for x in each equation to find y. Then the coordinate pairs are formed. You will graph the coordinate pairs in a bit.

GRAPH ONE: x = 5			
equation	**substitution**	**value of y**	**coordinate pair**
y = x - 1	y = 5 - 1	y = 4	(5, 4)
y = x - 2	y = 5 - 2	y = 3	(5, 3)
y = x - 3	y = 5 - 3	y = 2	(5, 2)
y = x - 4	y = 5 - 4	y = 1	(5, 1)
y = x - 5	y = 5 - 5	y = 0	(5, 0)

Now, complete the in and out function table below and graph the results.

GRAPH TWO: x = 3			
equation	**substitution**	**value of y**	**coordinate pair**
y = x + 7		y =	(,)
y = x + 6		y =	(,)
y = x + 5		y =	(,)
y = x + 4		y =	(,)
y = x + 3		y =	(,)

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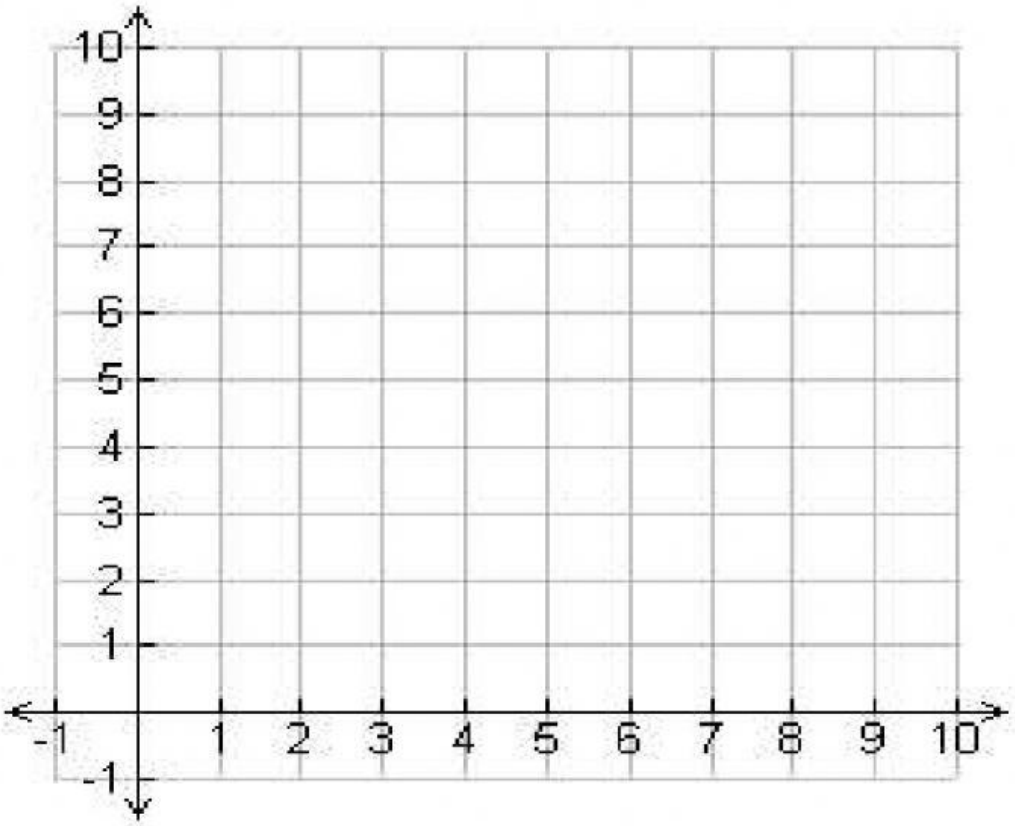
GRAPH ONE: x = 5



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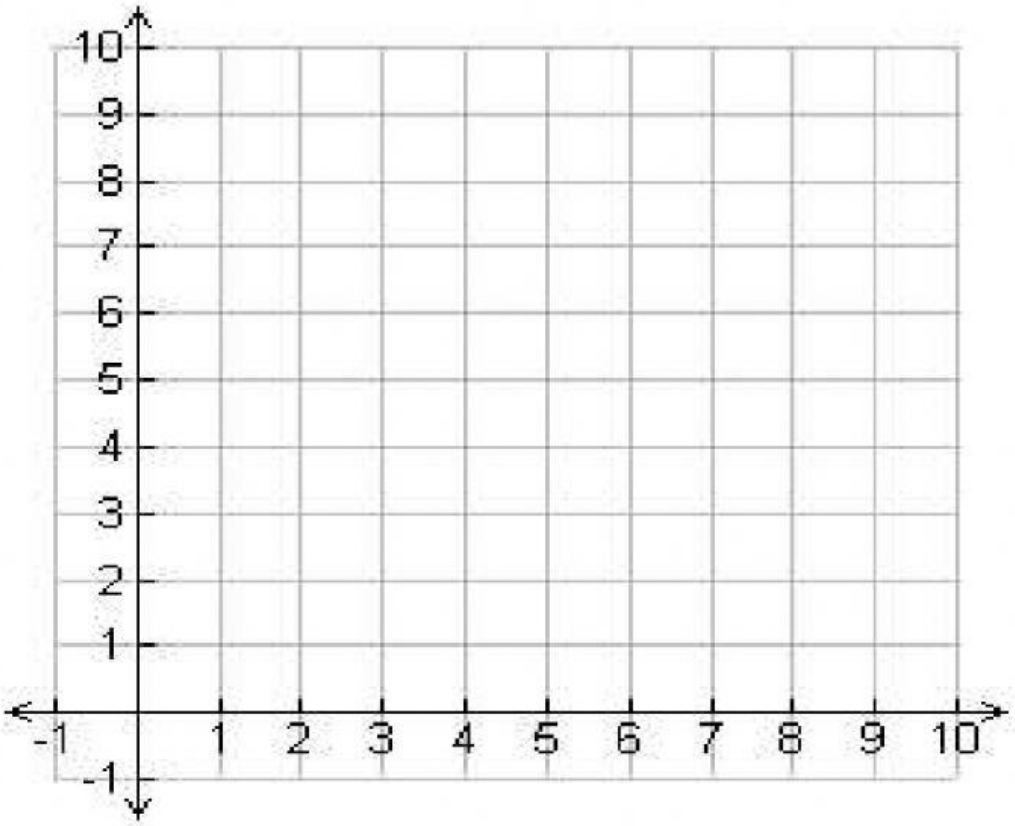
GRAPH TWO: x = 3



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