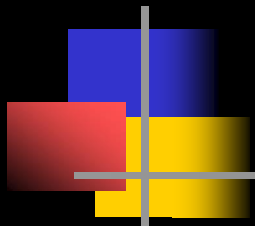
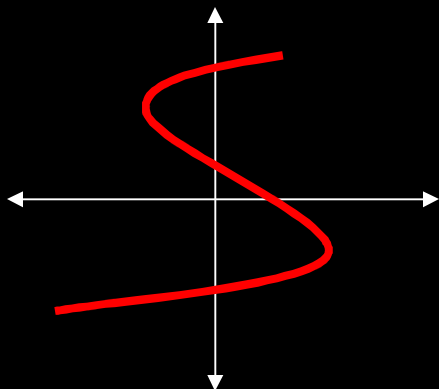


Monday, December 8, 2014
DO NOW

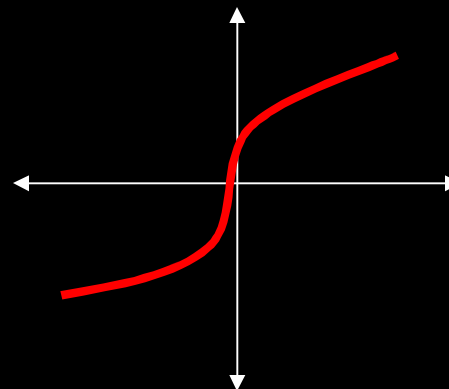


Are these graphs representing a function, explain why?

1.



2.





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Algebra

Functions and Relations

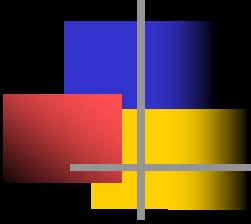


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- Objective: Evaluate functions in function notation

Key Terms

- Function Notation
 - Function Table
- Independent Variable
 - Dependent Variable

Function Notation

- When we know that a relation is a function, the “ y ” in the equation can be replaced with $f(x)$.
- $F(x)$ is simply a notation to designate a function. It is the output & range. It is pronounced ‘ f ’ of ‘ x ’.
- The ‘ f ’ names the function, the ‘ x ’ tells the variable that is being used.

Value of a Function

Since the equation $y = x - 2$ represents a function, we can also write it as $f(x) = x - 2$.

Find $f(4)$:

$$f(4) = 4 - 2$$

$$f(4) = 2$$

Value of a Function

■ $f(x) = 2x - 3$ when $x = -2$

$$f(-2) = 2(-2) - 3$$

$$= -4 - 3$$

$$= -7$$

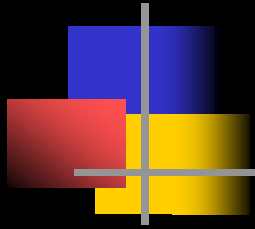
! Evaluate the Following Function in Function Notation...

- $f(x) = -7x - 3$ when $x = 4$

$$f(4) = -7(4) - 3$$

$$= -28 - 3$$

$$= -31$$



- The variable for the domain is called the independent variable.
- The variable for the range is called the dependent because it depends on the domain.
- You can organize the input, rule, and output into a function table.

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Classwork Assignment

Textbook: Pgs. 302 – 303
1-2, 8-13

Make a Function Table

- Choose four values for x to make a function table for each function. Then state the domain and range of the function.

a. $f(x) = x - 7$

b. $f(x) = 4x$



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EXIT TICKET

Monday, December 8, 2014

If $k(x) = (x-3)(3x+4)$:
What is $k(0)$?