

October 5, 2015
 Exam #1
 -8
 $64 - 8 = \frac{56}{64} = 0.875$
 (88)

Oct 5-9:54 AM

$(3x-8)^2 \neq 9x^2 + 64$
 ↑
 Base
 $(3x-8)(3x-8)$
 FOIL
 $9x^2 - 48x + 64$

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Functions
 ① Relation: a set of ordered pairs
 (1st element, 2nd element) $\{(a, 3), (2, -5), (t, y)\}$

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② Function: is a relation where the 1st element of the ordered pair is matched exactly with a 2nd element of the ordered pair.
 $\{(2, -5), (3, -11), (2, 8)\}$
 * Not a function because $(2, -5) \neq (2, 8)$

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$\{(4, 7), (5, 8), (7, -6), (8, 5)\}$
 ① Domain: the set of 1st elements of the ordered pair.
 $\{-6, 3, 7, -8\}$
 ② Range: is the set of 2nd elements of the ordered pair.
 $\{4, 5, -6\}$

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* Function Machine
 ① Input ② Rule (Software) ③ Output

5	$f(x) = x + 3$	8
-2	$(5, 8)$	1
0	$(-2, 1)$	3
-3	$(0, 3)$	0
	$(-3, 0)$	

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<u>Input</u>	Rule	<u>output</u>
① $x \rightarrow$		① y or $f(x) \rightarrow$
② Domain		② Range
③ Horizontal Position		③ Vertical Position
④ Independent Variable		④ Dependent Variable

Oct 5-10:46 AM