

Daily Agenda

Learning Target: I can evaluate functions.

Assessments

Mini Quiz 9/2
Unit 1 Test on 9/11

With the new day comes new strength and new thoughts.
-Eleanor Roosevelt

Nov 15-8:24 PM

1.4 Functions and Relations

relation: set of ordered pairs

function: for every x there is exactly one y

Aug 25-8:18 AM

Vertical Line Test

any vertical line drawn through the graph of a function will only intersect it in one place

$x + y^2 = 5$ $y = \pm\sqrt{x-5}$
 $y^2 = -x + 5$ not function

$|y| = x - 2$ not a function

Aug 25-8:48 AM

1.4 Functions

- used to distinguish between functions
- helpful in systems of equations

$f(x)$

"f of x"
means y

shows us what value we entered for x to solve for y

****This is not multiplication****

$f(5) = \underline{\hspace{2cm}}$

Aug 31-10:35 PM

Examples

$f(x) = 3x - 1$ $g(x) = 2x + 5$

$f(2) = 3(2) - 1 = 5$

$f(-3) = 3(-3) - 1 = -10$

$g(4) = 2(4) + 5 = 13$

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Examples

$f(x) = 3x - 1$ $g(x) = 2x + 5$

$g(2) = 2 \cdot 2 + 5 = 9$

$f(g(2)) =$

$f(9) = 3 \cdot 9 - 1 = 26$

$\frac{f(1)}{g(5)} = \frac{3(1) - 1}{2(5) + 5} = \frac{2}{15}$

$g(f(x)) = 2(3x - 1) + 5$
 $6x - 2 + 5 = 6x + 3$

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