

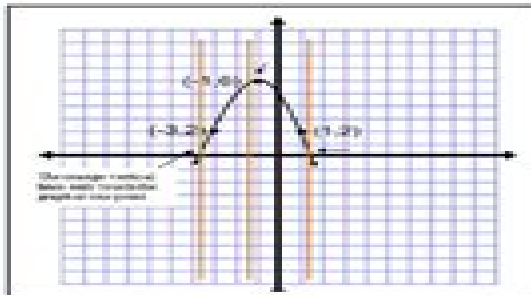
Functions – Quick Reference

Function Notation can be written as:

$f(x) = 3x+2$ this translates to: "f of x" equals $3x+2$ "
 $g(x) = 3x-1$ this translates to: "g of x equals $3x - 1$ "

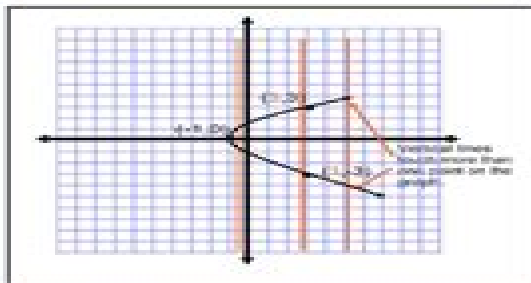
Identifying Functions using the Vertical Line Test

If a graph represents a function, that graph will only intersect with a vertical line one time.



When vertical lines are drawn through this graph, each vertical line touches the graph only one time.

This graph represents a function.



When vertical lines are drawn through this graph, each vertical line touches the graph more than once.

This graph does not represent a function.

Evaluating Functions

$f(x) = 6x - 1$ Find $f(5)$ Original Problem

$f(x) = 6x - 1$ Find $f(5)$ — Notice how 5 replaces the x in the function notation.

$f(5) = 6(5) - 1$ Substitute 5 for x in the original function.

$f(5) = 29$ Evaluated! This is your answer!

This answer means that if you substitute 5 for x into this function, you will get an answer of 29. You "used" to write: $y = 29$. Now, in place of y, you will use $f(5)$.

*(The 5 can be replaced with whatever number you substitute into the equation.)

Linear Functions

Function notation can be confusing, but once you can identify the x and y coordinate, you can think of your typical ordered pair.

A typical ordered pair: $(2, 5)$ where $\begin{matrix} (2, & 5) \\ \uparrow & \uparrow \\ x & y \end{matrix}$

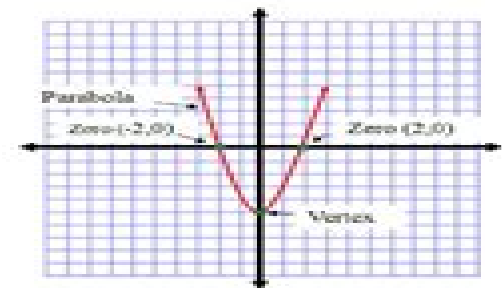
An ordered pair using function notation: $f(2) = 5$
 $\begin{matrix} f(2) = y \text{ coordinate} \\ \uparrow & \uparrow \\ x & y \end{matrix}$

Quadratic Functions

Quadratic Functions will have a "squared term"

$f(x) = ax^2 + bx + c$ coefficients constant
 $f(x) = 2x^2 + 3x + 4$ coefficients constant

A quadratic function will result in a "parabola" when graphed.



***If the lead coefficient is positive, then the parabola will open up. Example: $3x^2 + 2x - 5$ (3 is positive)
 ***If the lead coefficient is negative, then the parabola will open down. Example: $-2x^2 + 2x - 5$ (2 is negative)

Vertex Formula

Given the function: $f(x) = ax^2 + bx + c$

Vertex Formula: $-\frac{b}{2a}$ (The opposite of b divided by 2 times a)

Algebra I Notes Relations And Functions Unit 03a

Rong Yang



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