

Friday, February 2, 2019

- Warm-up

- Solve the following:

$$3|x + 5| - 2 = 10$$

$$\begin{array}{r} +2 \quad +2 \\ 3|x+5| = \frac{12}{3} \end{array}$$

$$|x+5| = 4$$

$$\begin{array}{r} x+5 = 4 \\ -5 \quad -5 \\ \hline x = -1 \end{array}$$

$$\begin{array}{r} x+5 = -4 \\ -5 \quad -5 \\ \hline x = -9 \end{array}$$

$$(2x - 1)^{\frac{1}{3}} + 4 = 12$$

$$\left(\sqrt[3]{2x-1} \right)^3 = (8)^3$$

$$2x - 1 = 512$$

$$\begin{array}{r} 2x = 513 \\ \frac{2x}{2} = \frac{513}{2} \\ x = 256.5 \end{array}$$

Objectives

Content: I will display my amazing knowledge of functions on the unit test.

Social: I will be part of a conducive testing environment, showing respect to my classmates.

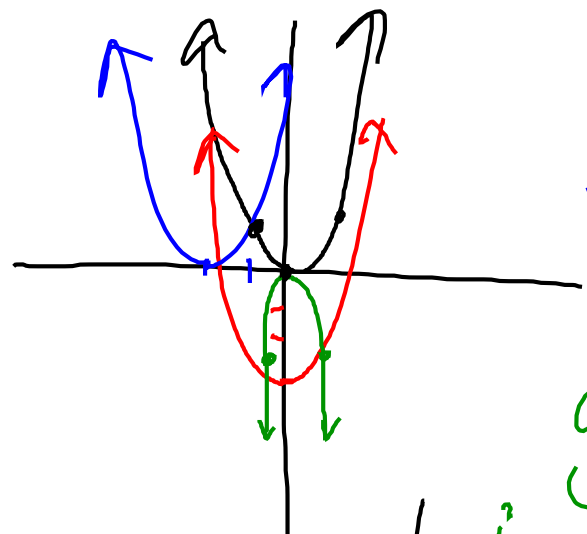
Language: I will read questions carefully and include context in my solutions.

- Quick Questions

- Test

Questions...

$$f(x) = x^2$$



x	y = x ²	-3x ²
-1	1	-3
0	0	-3
1	1	-3

$$g(x) = x^2 - 3$$

vertical shift
down 3

$$g(x) = (x + 2)^2$$

horizontal
shift left 2

$$g(x) = -3x^2$$

stretch of -3

$$4^3 2 x^4 y^3 \sqrt{2x}$$

$$(72x^3y^2)^{\frac{3}{2}}$$

$$\sqrt[2]{(72x^3y^2)^3}$$

$$\sqrt{(72x^3y^2)(72x^3y^2)(72x^3y^2)}$$

Factorization of $72x^3y^2$:

- $72x^3y^2 = 3 \cdot 2 \cdot x \cdot x \cdot x \cdot y \cdot y$
- Prime factors: $2^3 \cdot 3^2 \cdot x^3 \cdot y^2$
- Grouped factors: $(3 \cdot 3)$, $(2 \cdot 2 \cdot 2)$, $(x \cdot x \cdot x)$, $(y \cdot y)$, $(\sqrt{2x})$

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