TEAM BUILDER

Name 2 things you consider yourself to be very good at.

Can be ANYTHING!

Jan 11-9:54 AM

LT 5.1

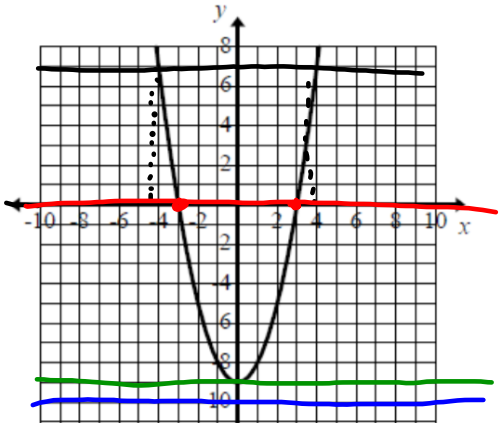
Topic - 5.1 - Solve by Graphs

How can I solve using real-world situations and translate between representations.

Sep 10-3:04 PM

5.1 A-B Solve by Graphing finished

Solve by Graphing



When f(x)=7 $x=-4$ $x=4$

$y=7$

When f(x)= -9 $x=0$

When f(x)=0 $y=0$ $x=3$ $x=-3$

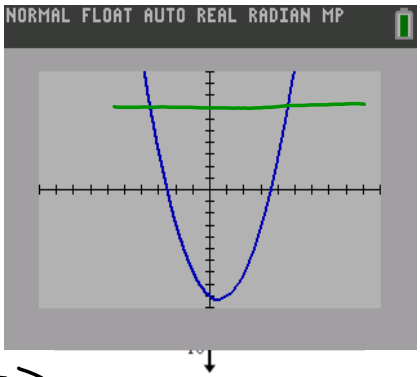
When f(x)= -10 no solution

Dec 3-10:39 AM

Solve by Graphing

Graph the function and find the solutions

$f(x)=x^2-x-9$



When f(x)=11 $y=11$

$x=-4, 5$

When f(x)= 7 $y=7$

$y=x^2-x-9$

$7=x^2-x-9$

$x=-3.53$

$x=4.53$

When f(x)= -11 no solutions

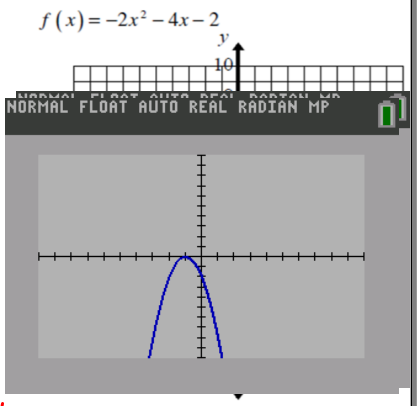
Dec 2-12:33 PM

5.1 A-B Solve by Graphing finished

Solve by Graphing

Graph the function and find:

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



Solve:

$-2x^2 - 4x - 2 = 0$

$Y = -2x^2 - 4x - 2$

$0 = -2x^2 - 4x - 2$

$x = -1$

Solve:

$-2x^2 - 4x - 2 = -20$

$+20 \quad +20$

$-2x^2 - 4x + 18 = 0$ $\quad -4.16, \ 2.16$

Solve:

$-2x^2 - 4x - 2 = 10$

$-10 \quad -10$

$-2x^2 - 4x - 12 = 0$

No Solutions

Dec 2-12:32 PM

Solve by Graphing

Goal:

Use graphical representations to solve equations like:

*what values of x will make equation true?

$$0 = 2x^2 - 3x + 5$$

*When f(x) = 0 (equation is = 0) the solutions are the x-intercepts

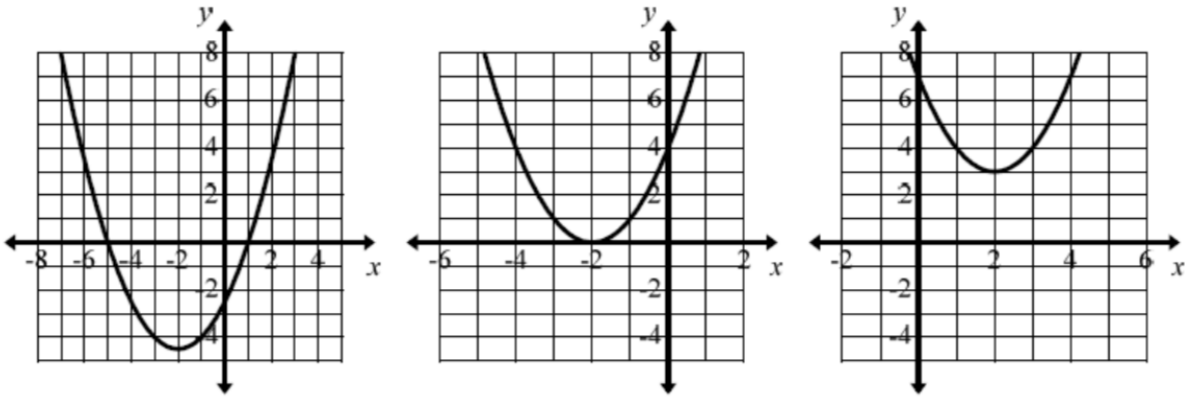
-Also called zeros or roots

Dec 2-12:24 PM

5.1 A-B Solve by Graphing finished

Solve by Graphing

how many solutions does each graph have?



Nov 21-7:31 AM

Solve by Graphing

1) While playing basketball this weekend Frank shot an air-ball. The ball left Frank's hands at a height of 8 feet with an initial velocity of 32 ft/sec. Use your graphing calculator, as needed. Round solutions to the nearest hundredth.

a) Write the function that models the height of the ball in feet.

$$h(t) = -16t^2 + 32t + 8$$

b) What is the maximum height of the ball?

c) How long does it take for it to reach that height?

d) What is the height of the ball, , when it hits the ground?

e) How long will it take to hit the ground?

Nov 21-7:31 AM

5.1 A-B Solve by Graphing finished

2) Abigail wants to make a wish while throwing a coin off a bridge into a stream. When she throws it, the coin is 112 feet above the water with an initial velocity of 50 ft/sec. Use your graphing calculator, as needed. Round solutions to the nearest hundredth.

a) Write the equation that represents the distance the coin is above the water.

[redacted]

b) What is the greatest height of the coin?

c) How much time will it take for the coin to hit the water?

Nov 21-7:31 AM

5.1A/B Homework

due date:

P-85 #1-7, 13-14

P-87 #3, 5

Jan 30-7:22 AM