no long warm up either way

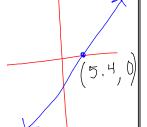
You will need your textbook for today's assignment. Be sure to have it in class.

WARM UP

Use your GDC to find the x-intercept

of
$$\forall = \frac{1}{2}$$

of
$$y = \frac{4}{3}x - 7.2$$



If absent from my class:

- 1. Always check my blog for details, etc
- 2. Always check the Class Papers Basket for...
- 3. Ask for the solutions to the previously scored assignment so you can check your work, etc.



$$\begin{vmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 & 1 \end{vmatrix} = \frac{1}{x-z}$$

$$\begin{vmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 & 1 \end{vmatrix}$$

$$= \frac{1}{x-z}$$

$$g(x) = \sqrt{x-5}$$

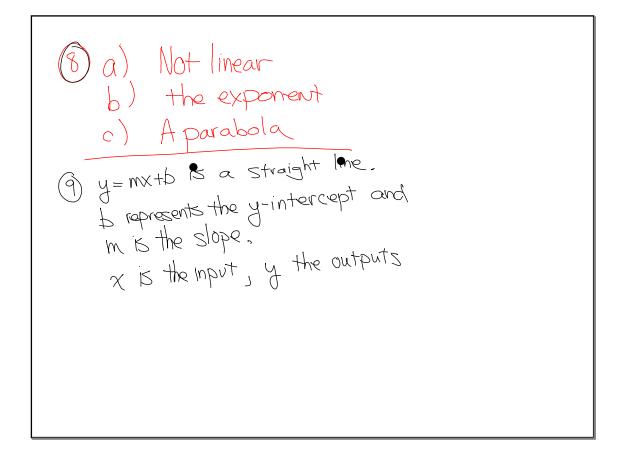
$$h(x) = x^{2} - 6$$

$$h(6) = 6^{2} - 6 = 30$$

$$g(x) = \sqrt{x-5}$$

$$g(30) = \sqrt{30.5} = 30$$

$$-5$$



[21]
$$f(x) = -\frac{2}{3}x + 3$$
 $g(x) = 2x^2 - 5$

(a)
$$f(3) = -\frac{2}{3}(3) + 3 = 1$$

21 d
$$f(x) = -\frac{2}{3}x + 3$$
 $g(x) = 2x^{2} - 5$

(a) $f(3) = -\frac{2}{3}x^{2} + 3 = 1$

(d) Solve $g(x) = -7$ $-7 = 2x^{2}$ $-1 = x^{2}$ $-1 = x^{2}$ $-1 = x^{2}$ $-1 = x^{2}$

Avoid the cycle of destruction.

If you are struggling with the work, don't sit back and do nothing. Seek help or come in early the next day.

wo Goals Today:

I) Use the ZERO PRODUCT PROPERTY (ZPP)

$$3 \cdot 7 = 21$$

do we know anything about the factors?

$$2 \cdot b = 10$$

$$a \cdot b = 24$$

$$a \cdot b = 0$$

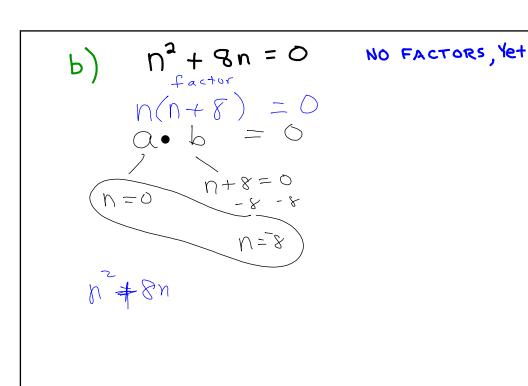
$$2PP \quad \text{if } a \circ b = 0$$
then $a = 0$ or $b = 0$

3 Examples

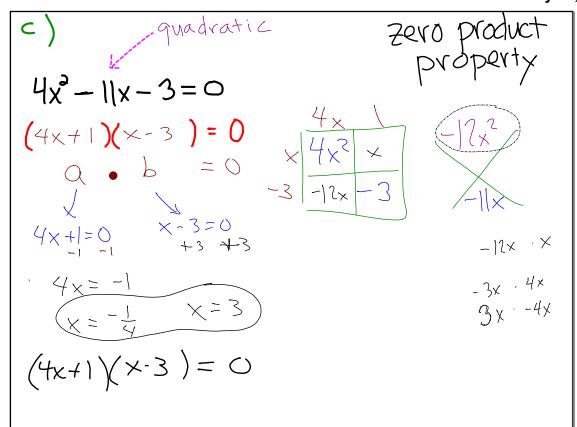
Solve each quadratic equation using the zero product property

a)
$$(3x-4)(3x-5) = 0$$
 $(3x-4)(3x-5) = 0$
 $($

 $(0x^2 - 23x + 70 = 0$

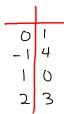


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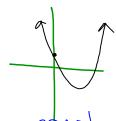


8.8.

In Algebra 1 you learned about the multiple representations of functions:



$$y = x^2 - 2x + 1$$



TABLE

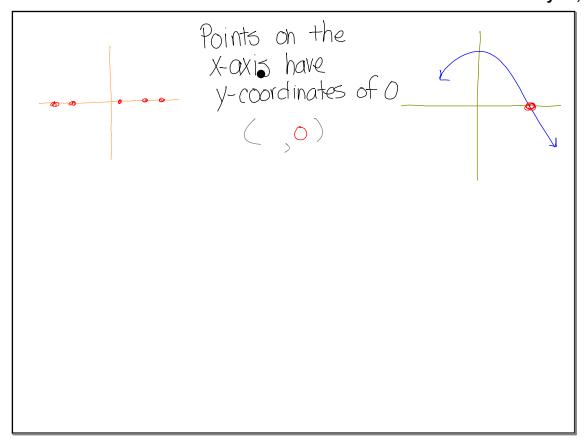
EQUATION

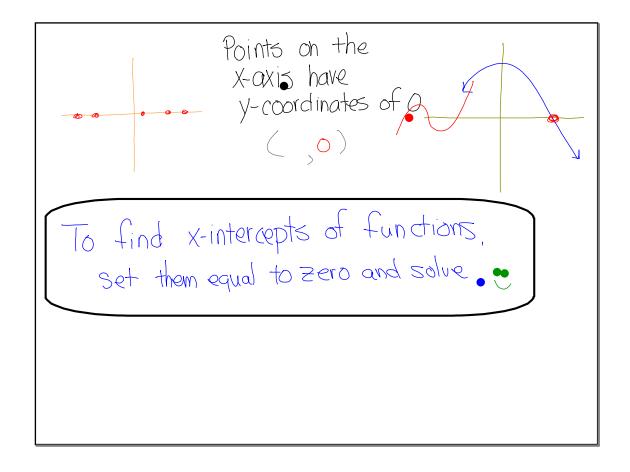
& Structions

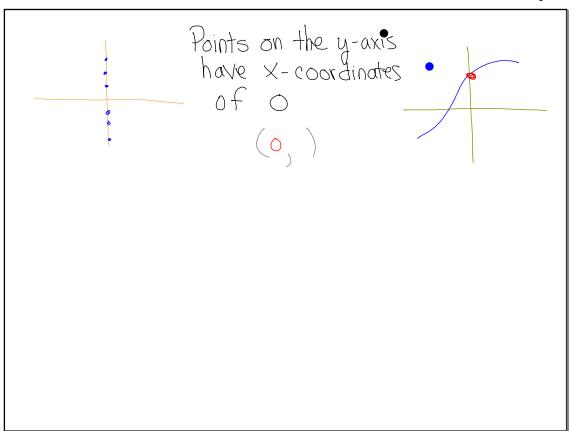
TODAY'S AIM I

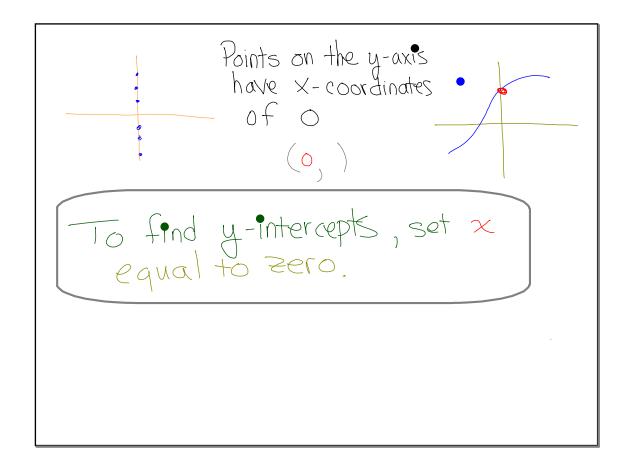
Analyze Functions by Making Complete Graphs

with the help of \mathcal{GDC}









In your Notes

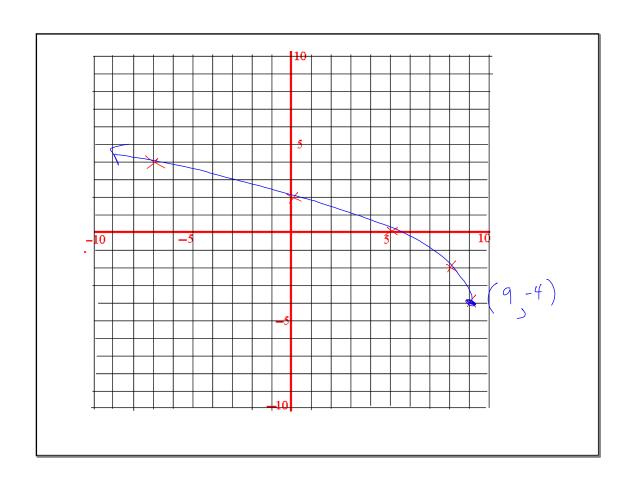
will need a half

- Find the locations of key points?
- Find the domain and range?
- 3 Identify the **y**-intercept (exact if possible)
- 식. Identify **X**-intercept(s), exact if possible

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- Plot points accurately
- Scale axis appropriately
- Label key points
- Go by "ones"



Find the locations of key points?

endpoint (9,-4)

Find the domain and range?

domain: $-\infty < x \leq 9$

3 Identify the **y**-intercept (exact if possible)?

Set
$$x=0$$
 $y = 2\sqrt{9-0} - 4$
 $= 2$ (0,2)

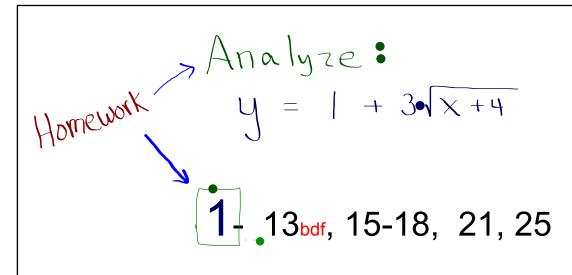
4. Identify **X**-intercept(s), exact if possible

set
$$y=0$$
 $2\sqrt{9-x}-4=0$

(5,0)

$$\sqrt{9-x} = 2$$

$$9-x=4$$



If your group is selected, everyone must contribute to the presentation in some way.

Including at least one Statement starting with

"At first we were confused by..."

"This makes sense because..."

"We weren't sure about..., so we tried..."

"Something interesting that we noticed about our graph is..."