

9 OCTOBER 2019

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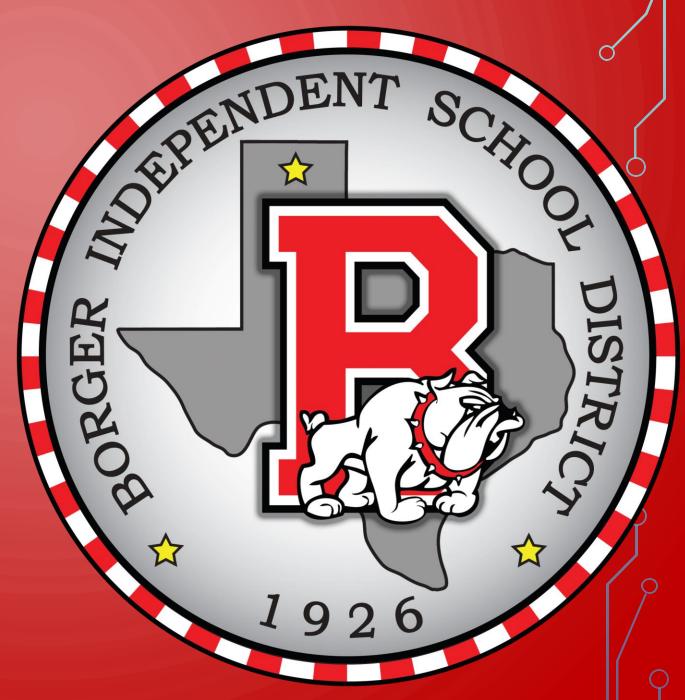
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B

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Q



2A.2 (B) graph and write the inverse of a function using notation such as $f^{-1}(x)$; 2A.2 (C) describe and analyze the relationship between a function and its inverse (quadratic and square root, logarithmic and exponential), including the restriction(s) on domain, which will restrict its range; 2A.2 (D) use the composition of two functions, including the necessary restrictions on the domain, to determine if the functions are inverses of each other.

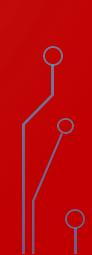
We will be able to determine the inverse of an equation without graphing.

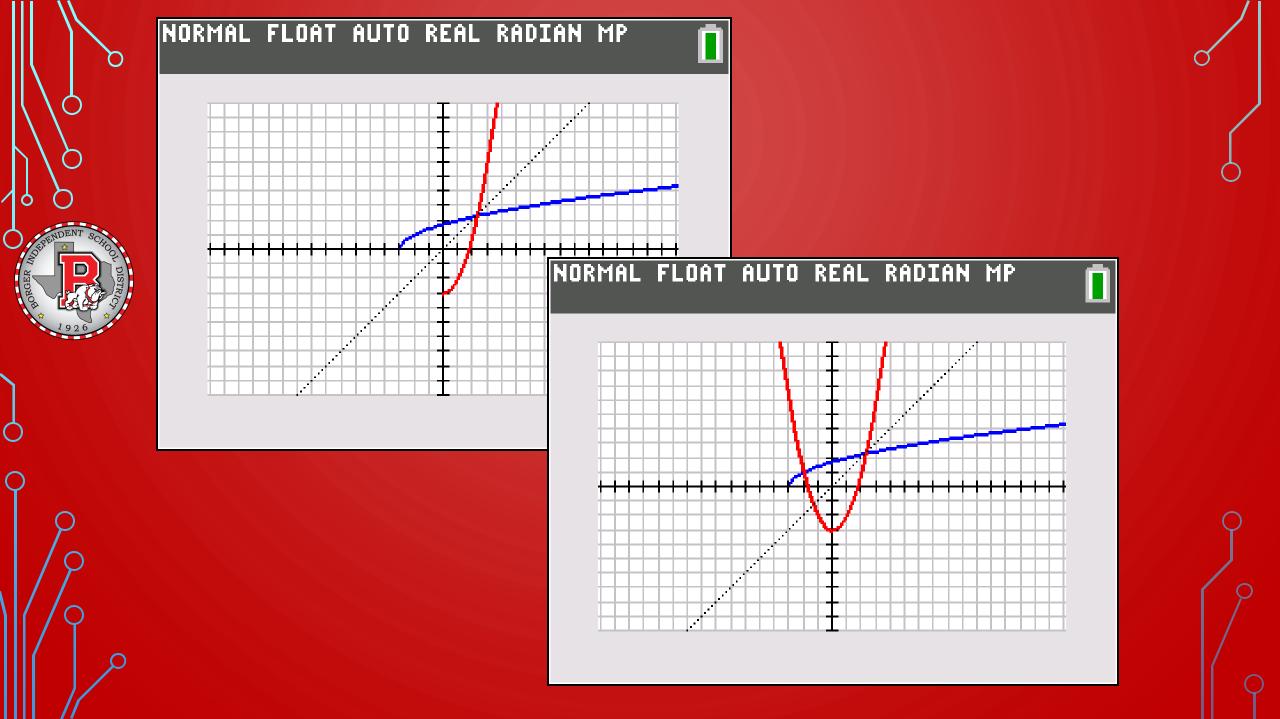
WHAT WE NEED:

- TI 84
- VLT
 - HLT

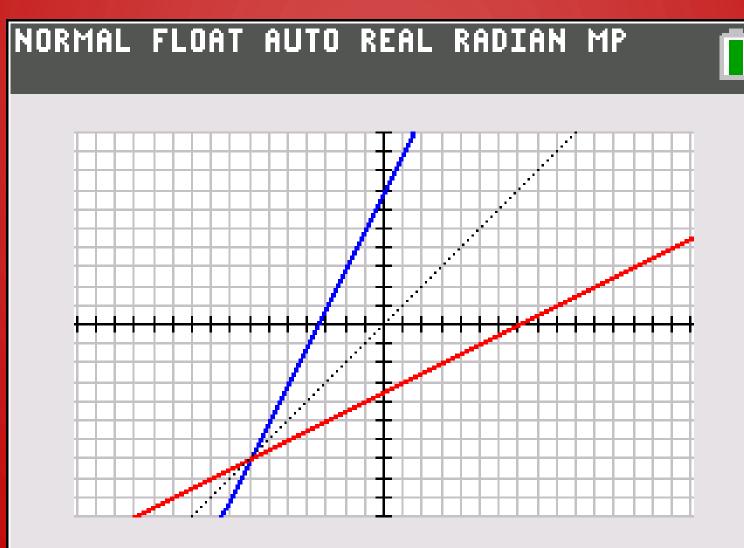
I WILL BE ABLE TO COMPLETE MY HOMEWORK GIVEN THE

- Equation
 - Change f(x) to y
 - Swap x and y
 - Solve for y

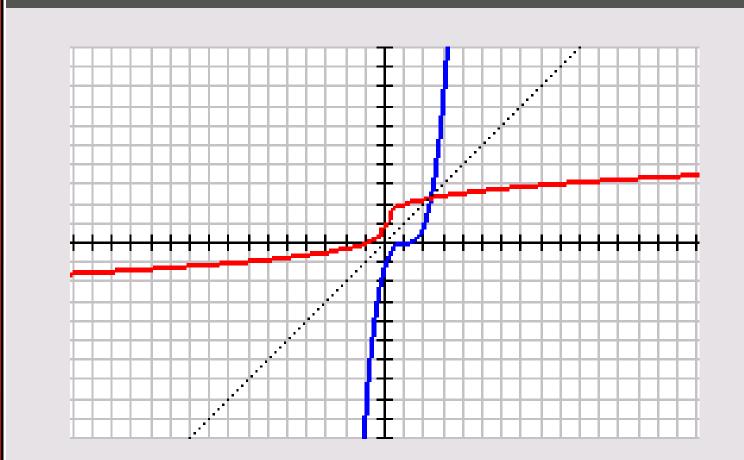






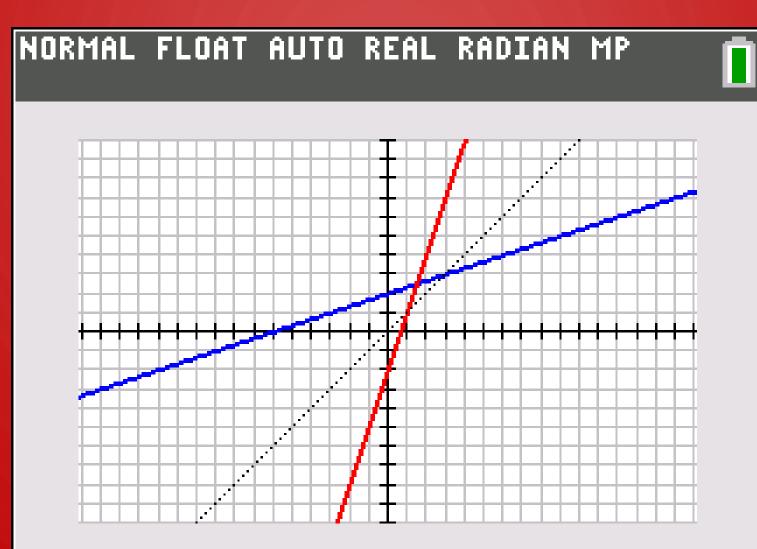




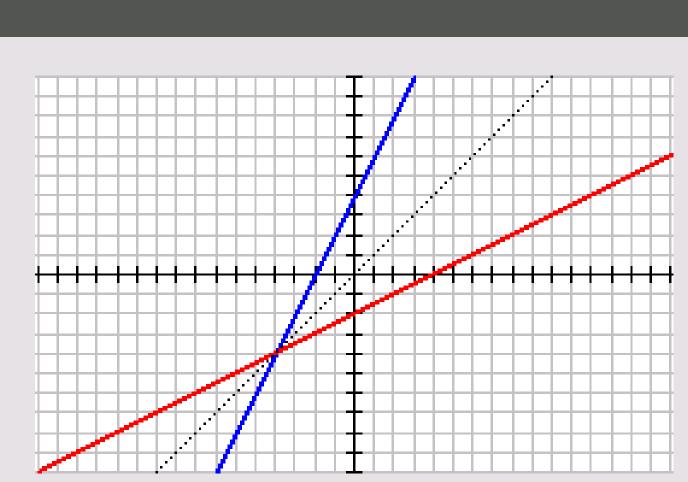


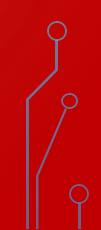




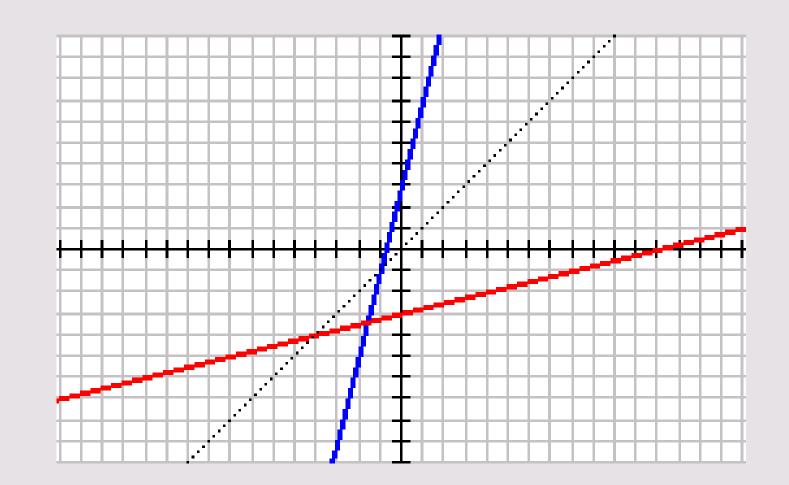




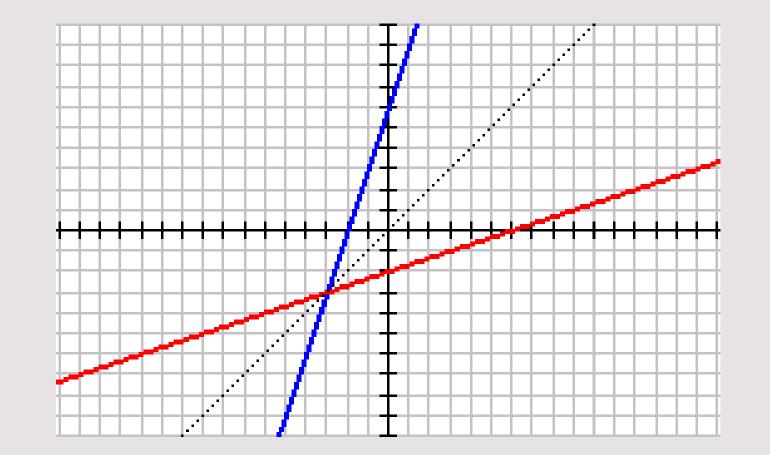
















O

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E data

f(x)= 2x+7

Y= 2x+7

X = 2y + 7

X-7=24

f'(x)= +x

D: R R R: R R

× D: R

YR: R

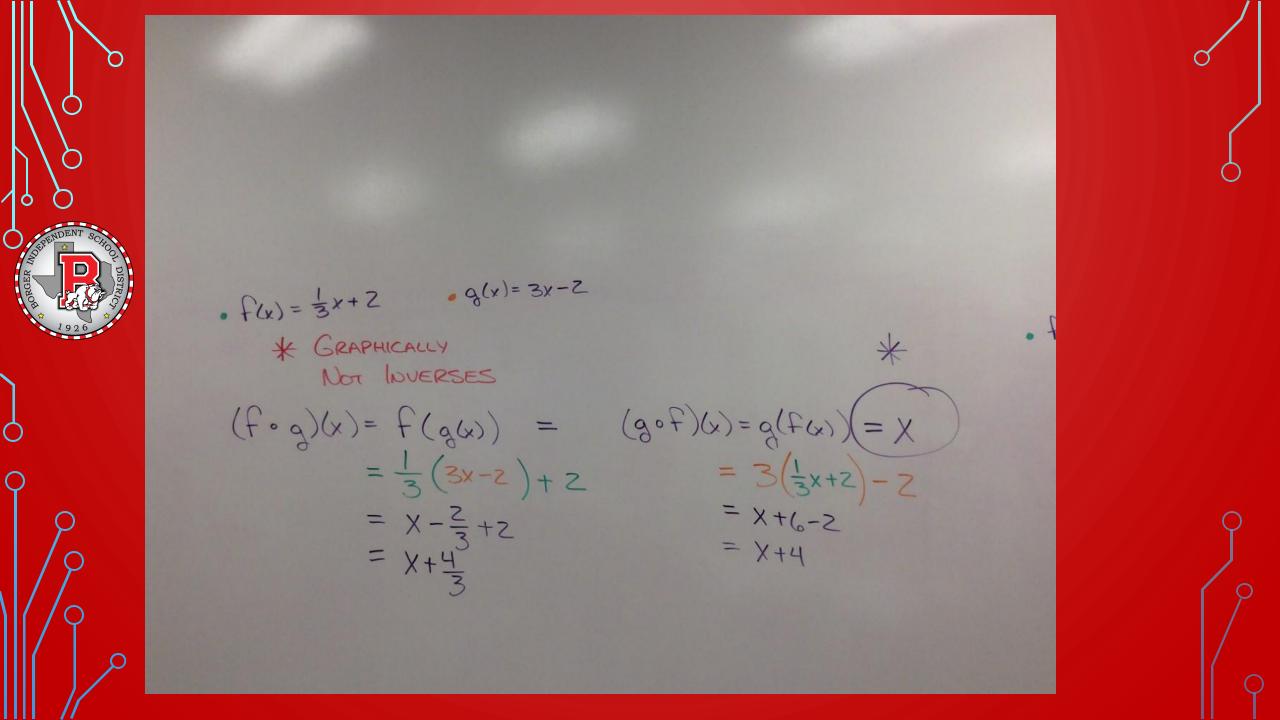


O * INVERSES INTERSECT THE ORG FUNCTION ON THE LINE Y=X $f(x) = x^{2}$ $x D: \mathcal{R} = [c_{0}, \infty)$ $y \mathcal{R}: [c_{0}, \infty) \xrightarrow{\text{Has}}$ $y = x^{2} \xrightarrow{\text{Restricted}}$ $y = x^{2} \xrightarrow{\text{Restricted}}$ $y = \pm -1x$ f'(x) = -1x $D: [c_{0}, \infty) \xrightarrow{\text{Lo}(\infty)}$ $\mathcal{R}: [c_{0}, \infty) \xrightarrow{\text{R}}$



WS 2-1-3 ODDS WS 2-1-4 EVENS

Y=-1+3 f(x) = -1x+3 $X = -\sqrt{7+3}$ $(X D: E-3, \infty)$ $(Y R: E0, \infty)$ $\chi^2 = \gamma + 3$ $y = x^2 - 3$ $f'(x) = x^2 - 3$ D: Eo, oo) XR WE USE THE NE USE THE RE RE RE-3,00) E-3,00)





• f(x) = 2x + 4 • $g(x) = \frac{1}{2}x - 2$ 1) $(f \circ g)(x) = f(g(x))$ = $Z(\frac{1}{2}x-2)+4$ = X - 4 + 4B/C = z = x $= \chi$ $d(x) = f_{-1}(x)$ $(3 \circ t)(x) = \delta(t(x))$ $=\frac{1}{7}(2x+4)-2$ = X+Z-Z = X