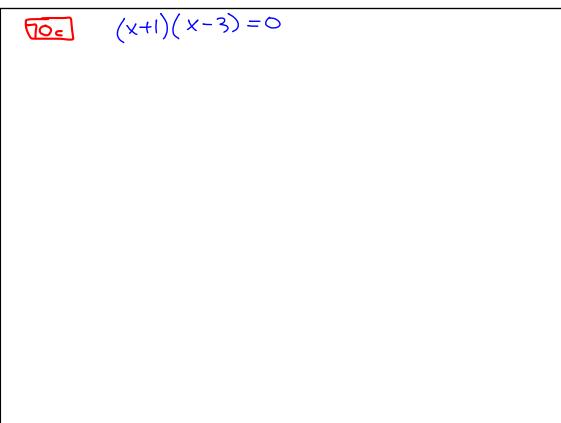
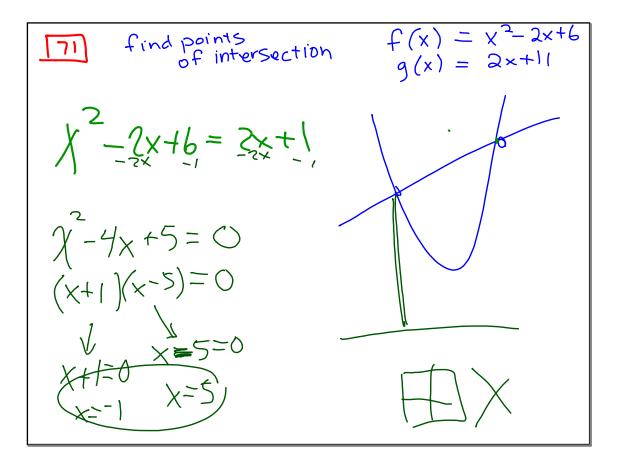


$$\frac{3}{x} + \frac{6}{-6} = -\frac{45}{-6}$$

$$\frac{3}{x} = -51$$

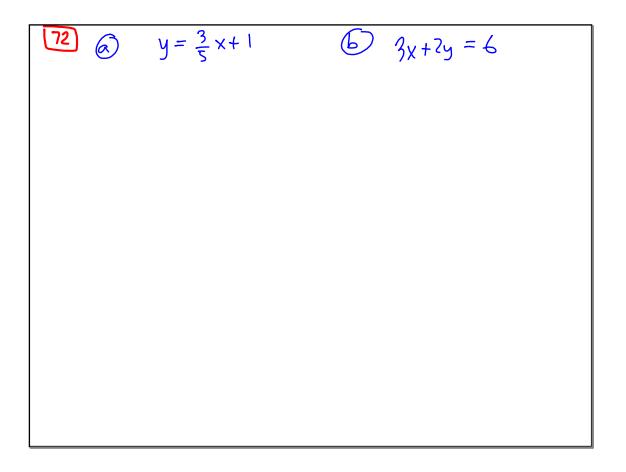
$$\begin{array}{l} \hline 10b \\ 40 \\ x-2 \\ x-5 \\ x-5 \\ x-5 \\ x-1 \\ x-1$$



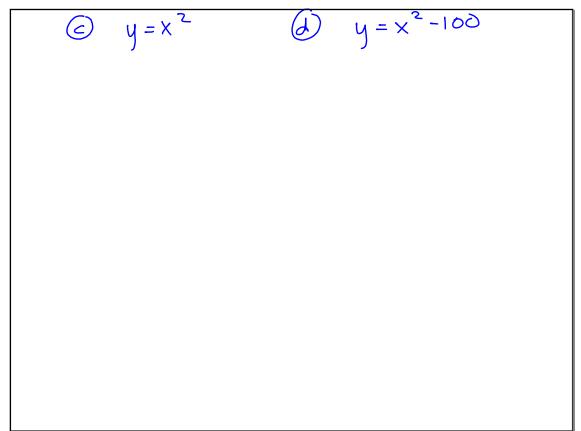


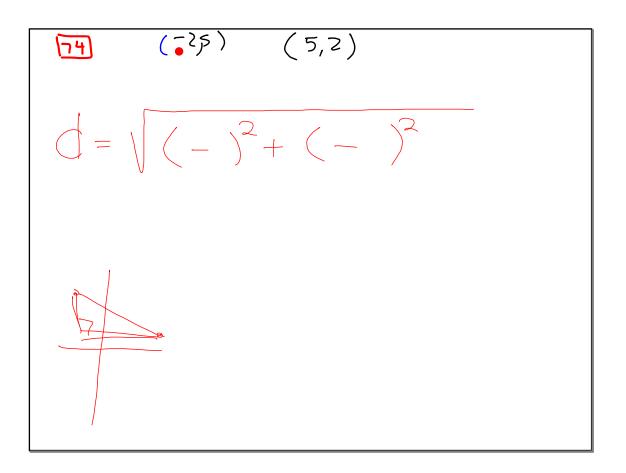
December 14, 2018

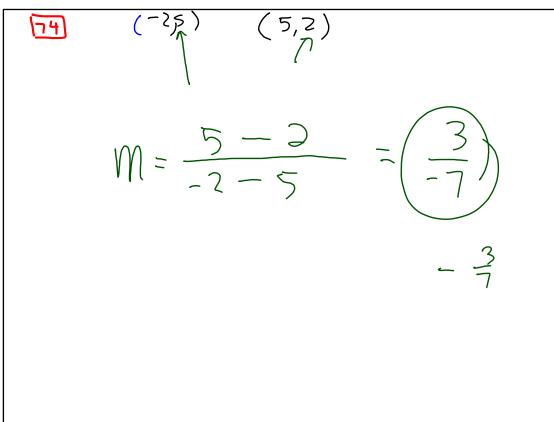
f(x) + g(x) = f(x) - g(x)

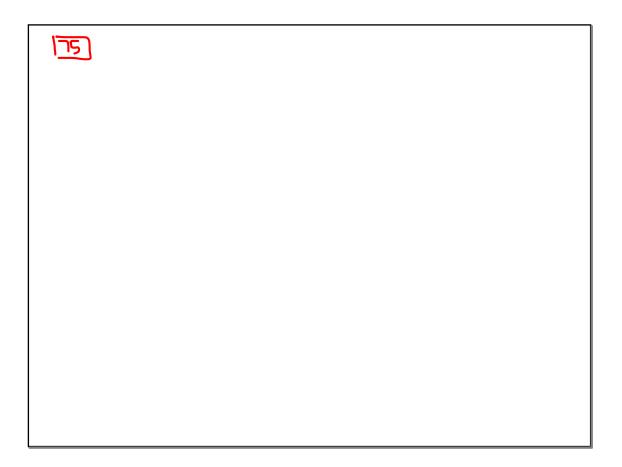


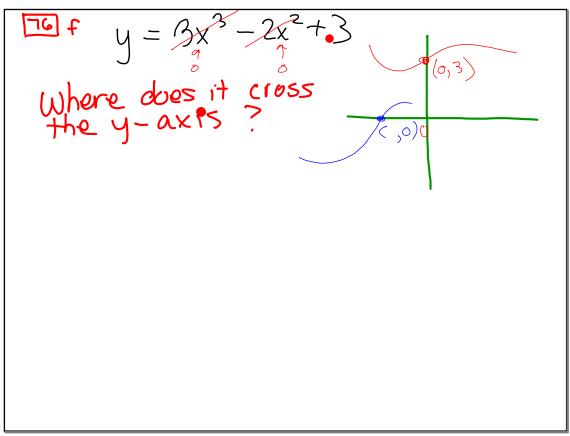
December 14, 2018





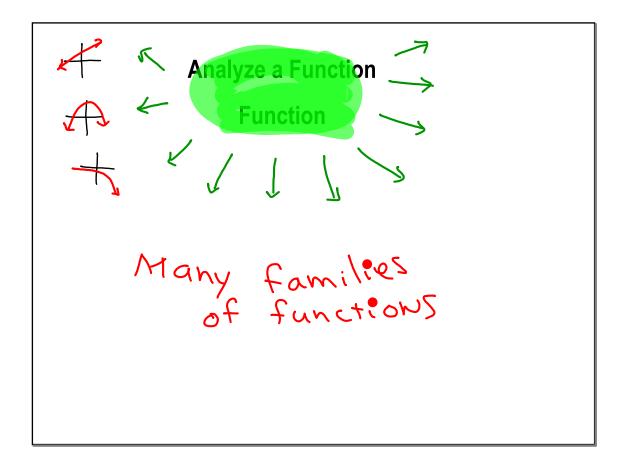


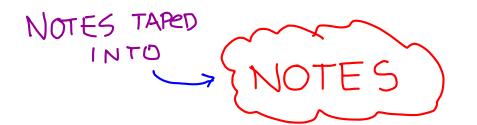




(1) Check your HW using the Solutions. 2 Record your scores as usual.





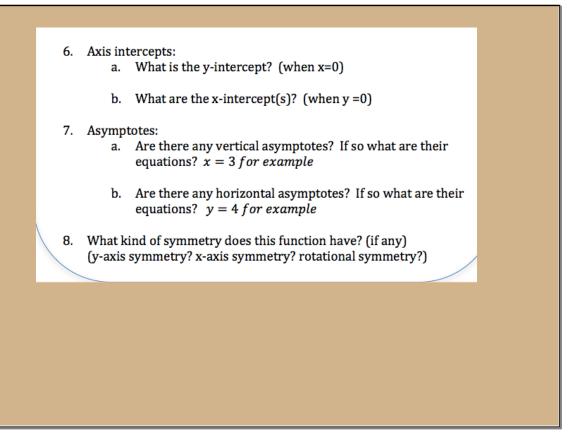


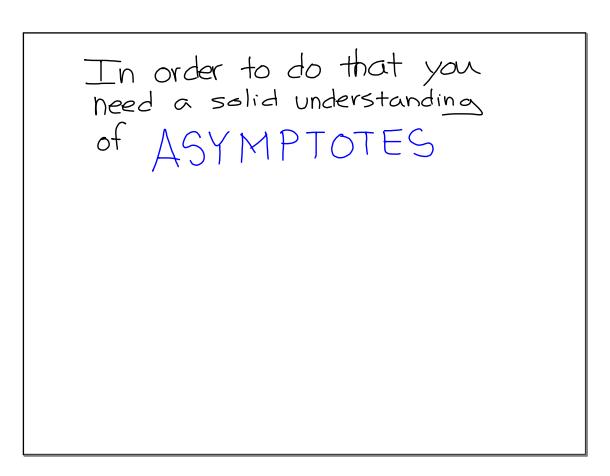
## Analyzing Functions

to help make Summary Statements about Functions

- 1. Sketch the graph and Describe the Shape.
- 2. Describe any special points (if any) and show the coordinates of their location? (besides x- and y-intercepts)
- 3. What is the domain?

- 4. What is the range?
- 5. <u>End behavior</u> What happens to the *y*-values when *x* increases to  $+\infty$ ? when *x* decreases to  $-\infty$ ?

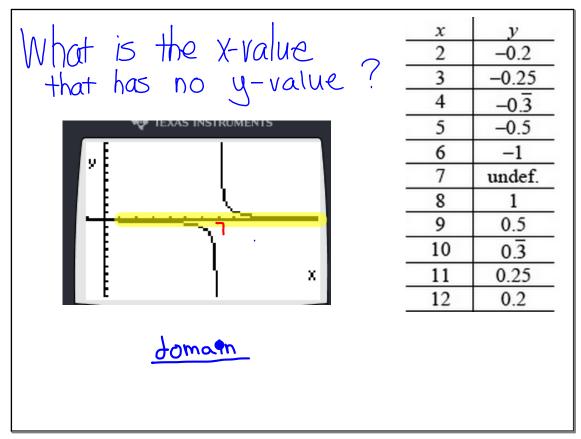


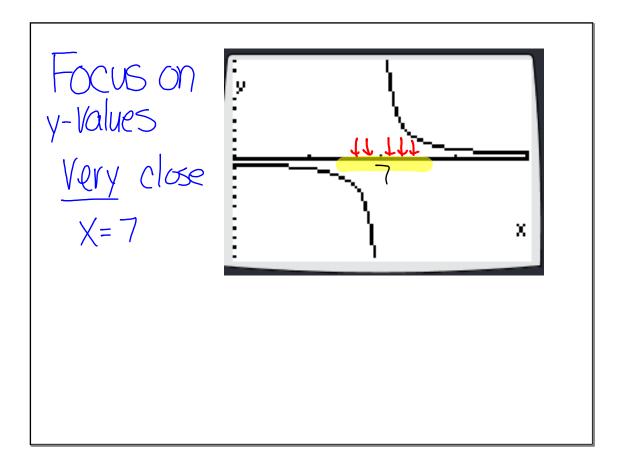


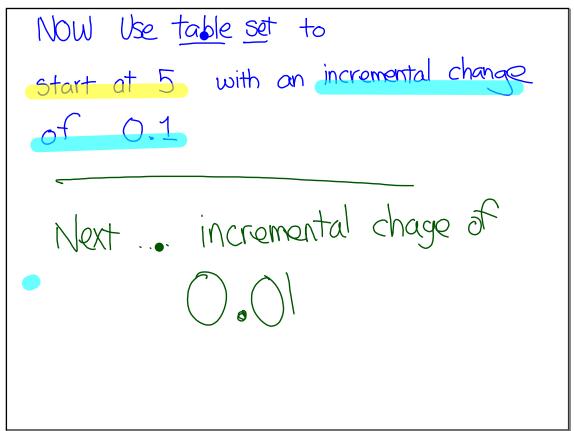
December 14, 2018

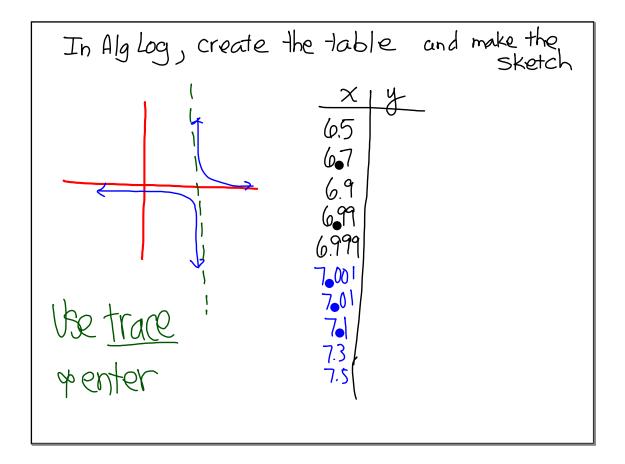
graph  $f(x) = \frac{1}{(x-7)}$   $y = \frac{1}{x} - 7$ From the table look at the y-values associated with the five x-values below 7 and the five above

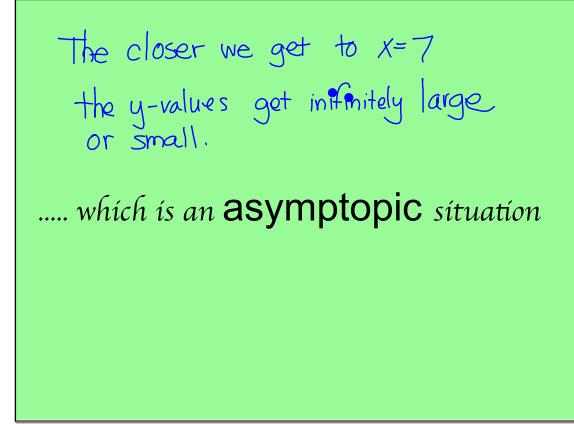
х y -0.22 3 4 5 What is the x-value ? that has no y-value ? -0.25-0.3 -0.5 6  $^{-1}$ 7 undef. 8 1 9 0.5 10 0.3 0.25 11 0.2 12

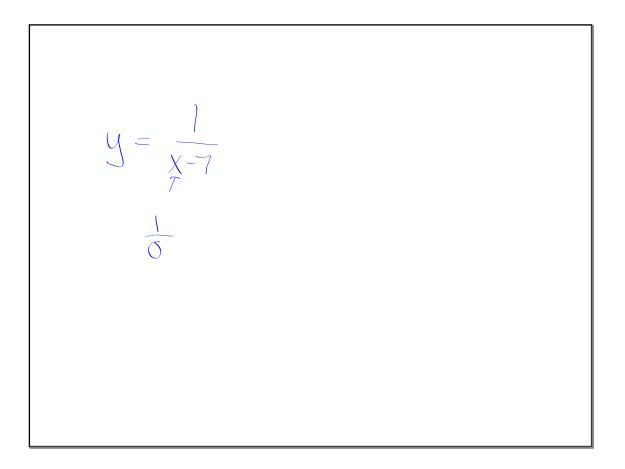




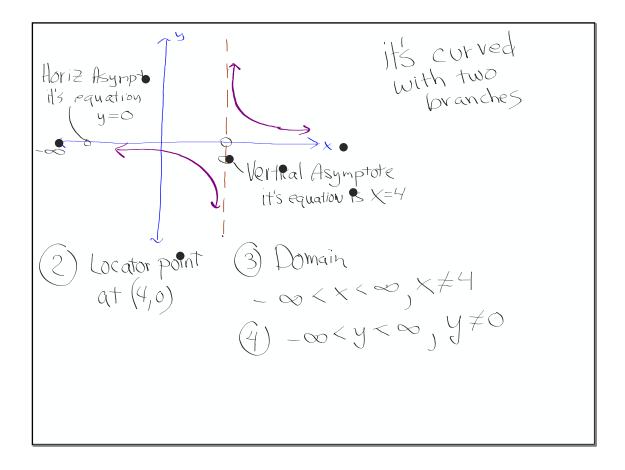


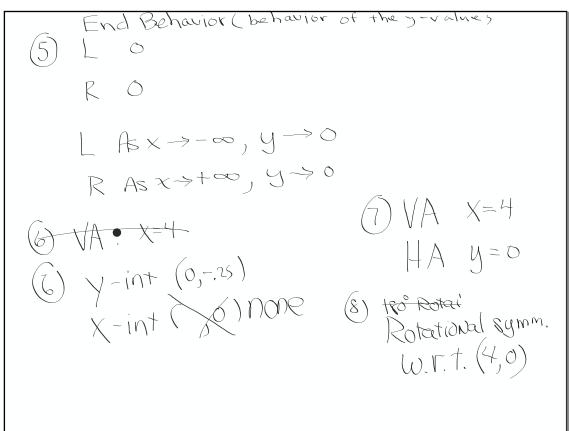


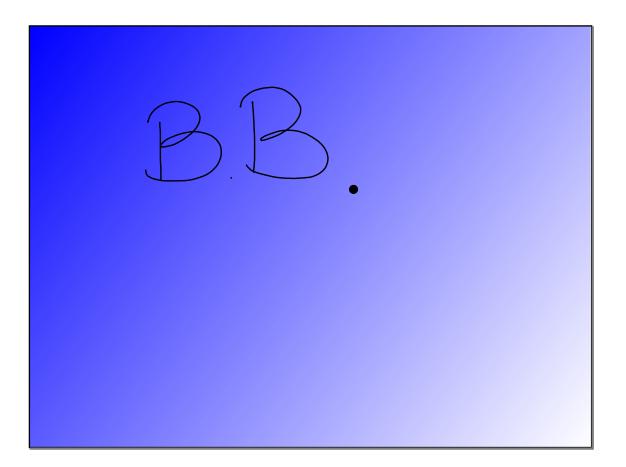




Analyze  $q(x) = \frac{1}{x-4}$ Investigate your function using the 8 questions







ANALYZE  $y = (x+3)^2 - 2$ Using the 8 investigation questions

