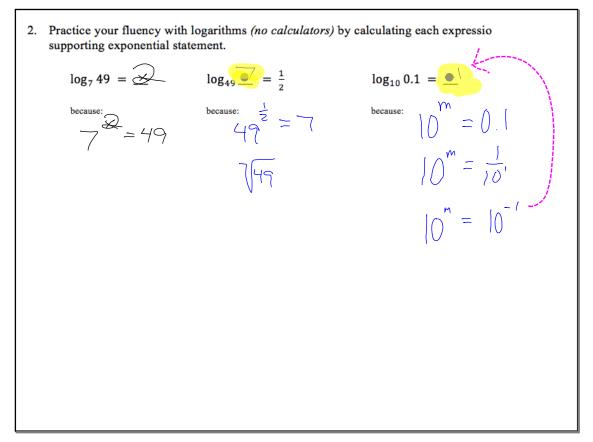
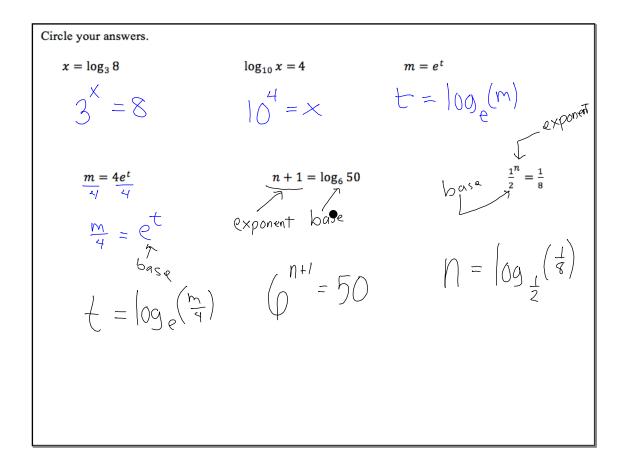
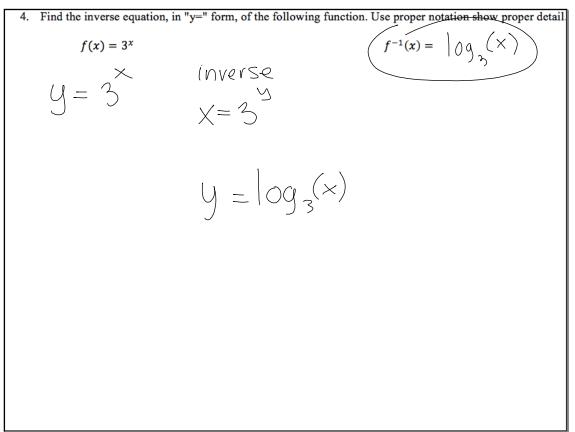


1. Calculate the the future value of an investment of \$5000 for 10 years if a bank pays interest monthly 6. <u>.065</u> 12 (12 10) ≈ and assume the annual interest rate is 6.5%. ≈ # 9,560 ·<u>92</u> 5000( FV = Repeat the calculation if you left the money for 20 years instead.  $FV = 5000 \left( 1 + \frac{065}{12} \right)^{2 \cdot 20} \approx 4 \frac{8}{18} \frac{23}{282}$ 





## December 14, 2017



5. Find the inverse, in "y=" form, of the following function. Use  
the test).  

$$y = (3)2^{x} + 10$$

$$\chi = 3 \cdot 2^{5} + 10$$

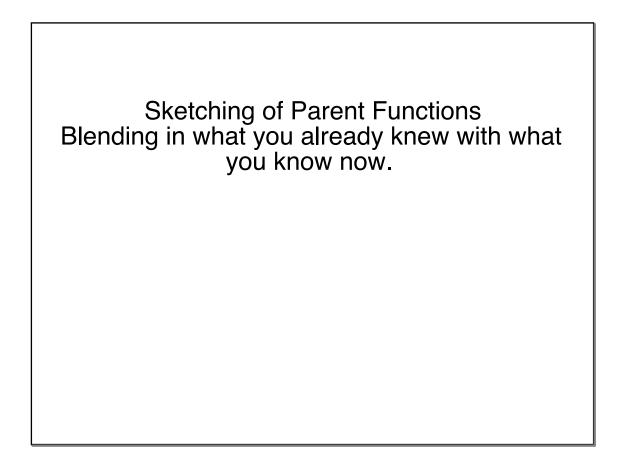
$$\chi - 10 = 3 \cdot 2^{7}$$

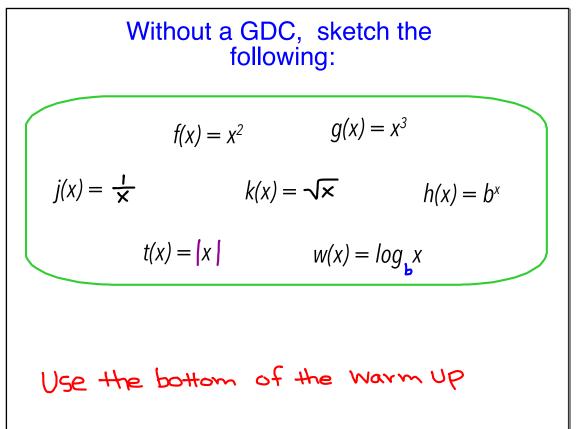
$$\chi - 10 = 3 \cdot 2^{7}$$

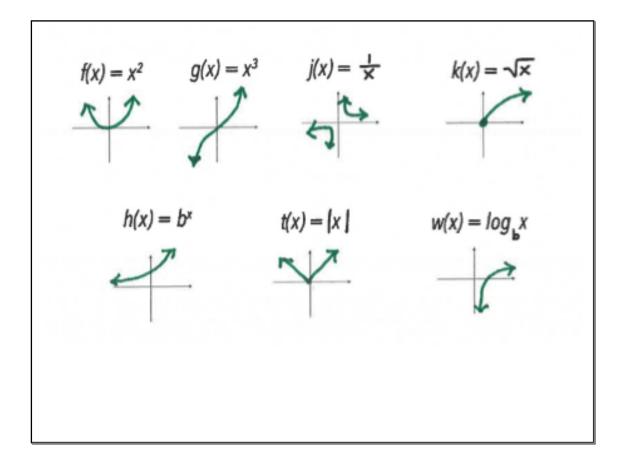
$$\chi = 109_{2} \left(\frac{\chi - 10}{3}\right)$$

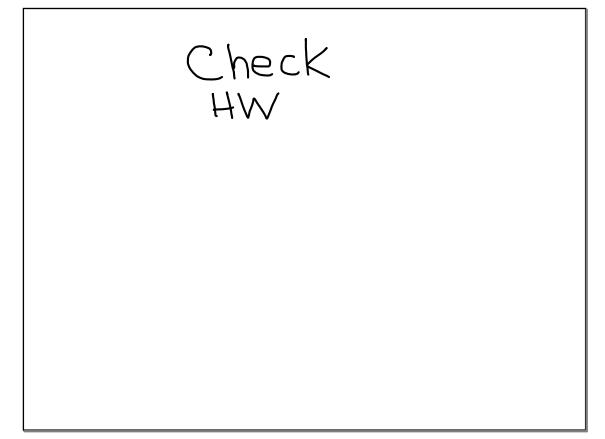
$$\chi = 109_{2} \left(\frac{\chi - 10}{3}\right)$$

common Simplify completely. 4. x-5 4x+6 FACTOR FACTOR FACTOR FACTOR a-b- (b-a)

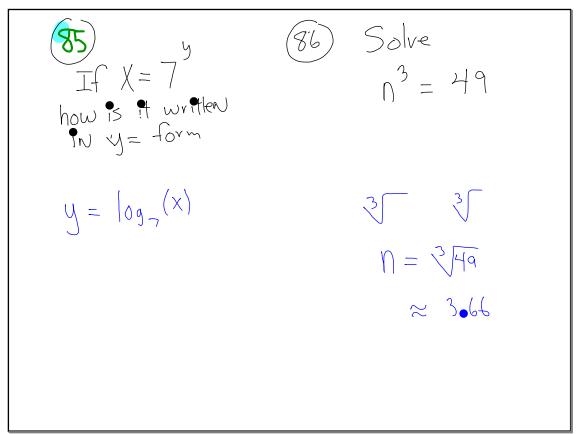


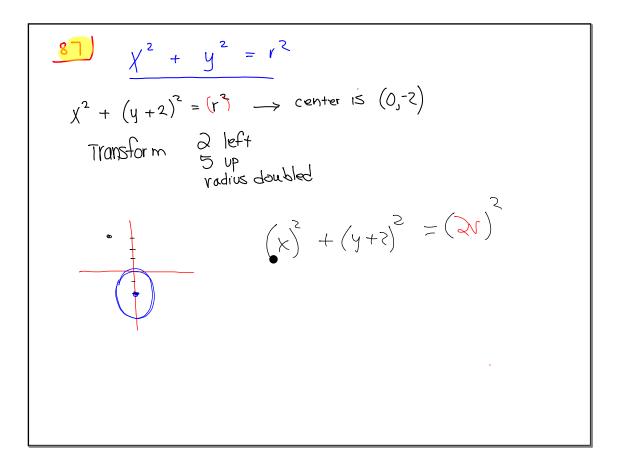


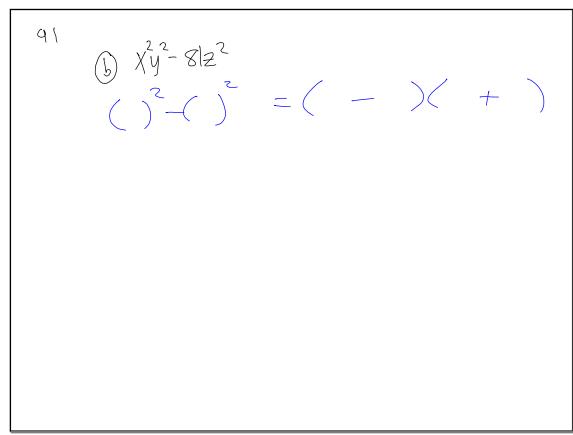




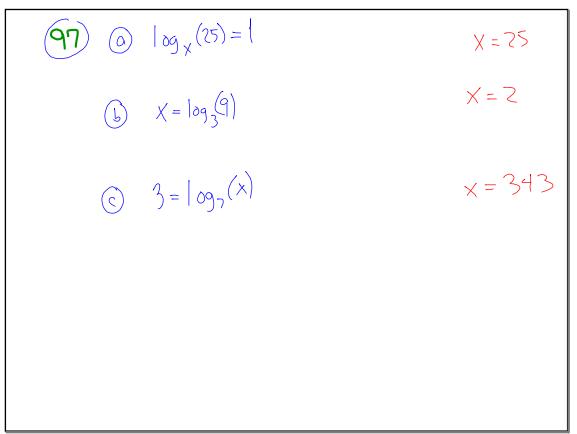
a) 
$$y = ab^{x}$$
  
 $b$   $y = ab^{x}$   
 $a = ab^{x}$   
 $a = b^{x}$   
 $a = b^{x}$   
 $a = b^{x}$   
 $b = \sqrt{a}$   
 $b = \sqrt{a}$ 





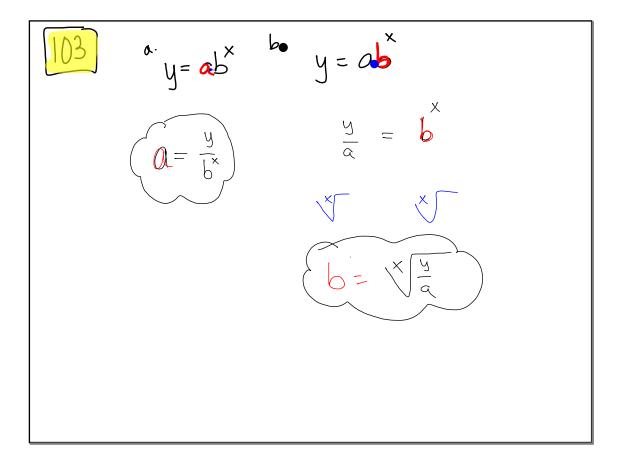


$$\begin{array}{c} (9) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\$$

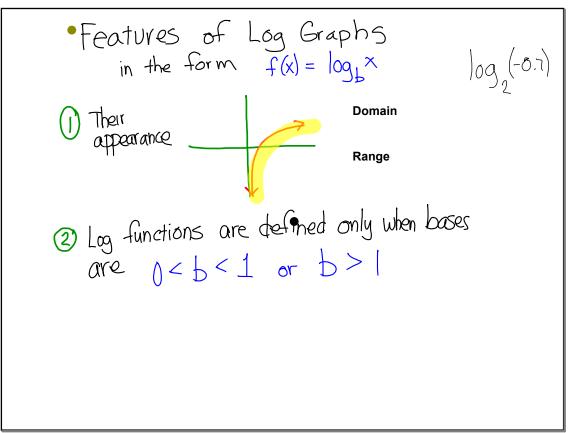


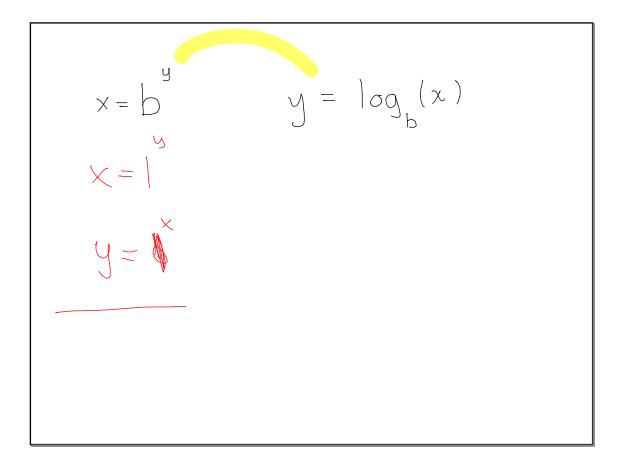
(d) 
$$\log_{3}(x) = \frac{1}{2}$$
  $X = \sqrt{3}$   
(e)  $3 = \log_{x}(27)$   $X = 3$   
(f)  $\log_{10}(1000) = X$   $X = 4$ 

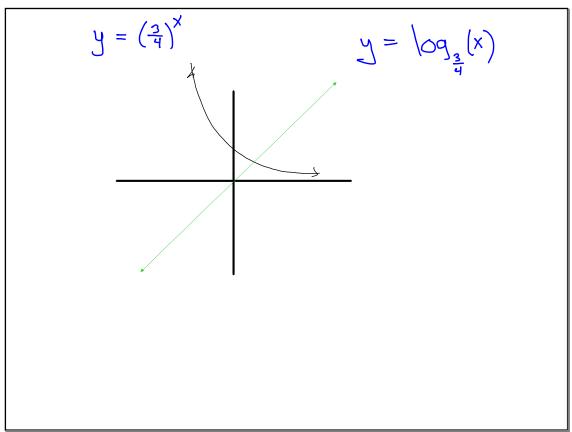
120



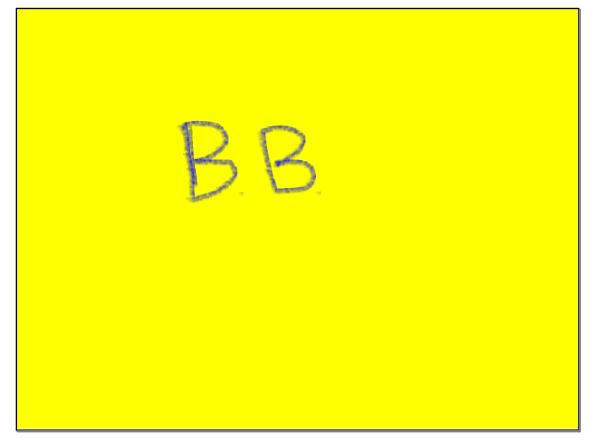
 $\frac{92d}{x^2+2x} = \frac{4x+16}{x^2+2x}$ What You Should Know The Log Function







Their graphs have a single vertical  $q_{symptote}$  (equation •  $\chi = 0$ ) 3 The X-intercept is (1,0) 4



- Tomorrow....Turn in your homework packet in the white box
- Turn in your textbook (Volume 1 ) either today or tomorrow before period 1.

## **Rules for Tests**

- No bathroom trips during test. after your test is turned in maybe.....
- · Hats backward, no hoods
- · Calculator covers put away/ No writing on GDC's
- If you are going to use the notes option, you have to have them out before you look at the test.
- You can use electronic devices after your test is turned in.

## To Prepare

Review all in-class worksheets, Notes and Warm Ups

Be able to do most HW problems

Closure Assignment will review some of the skills and concepts

You can use your GDC. I will not tell you how to use it during the test unless there is some unusual sitution.

Be responsible and either have working batteries or get it charged ahead of time.



Should be able to draw the inverse of a function on your GDC

Turning in HW All assignments that you've done get turned into me, then I hand you the test. 15° penalty per day if packet is late

