## Mid chapter recap of logs

$$2^{4} = 14$$
  

$$2^{2} = 14$$
  

$$2^{2} = 13$$
  

$$4 = 43$$
  

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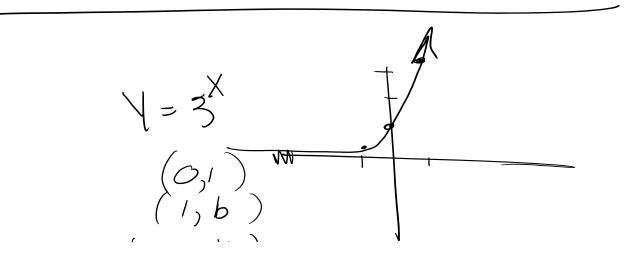
$$2^{2} = 109 + 3$$
  

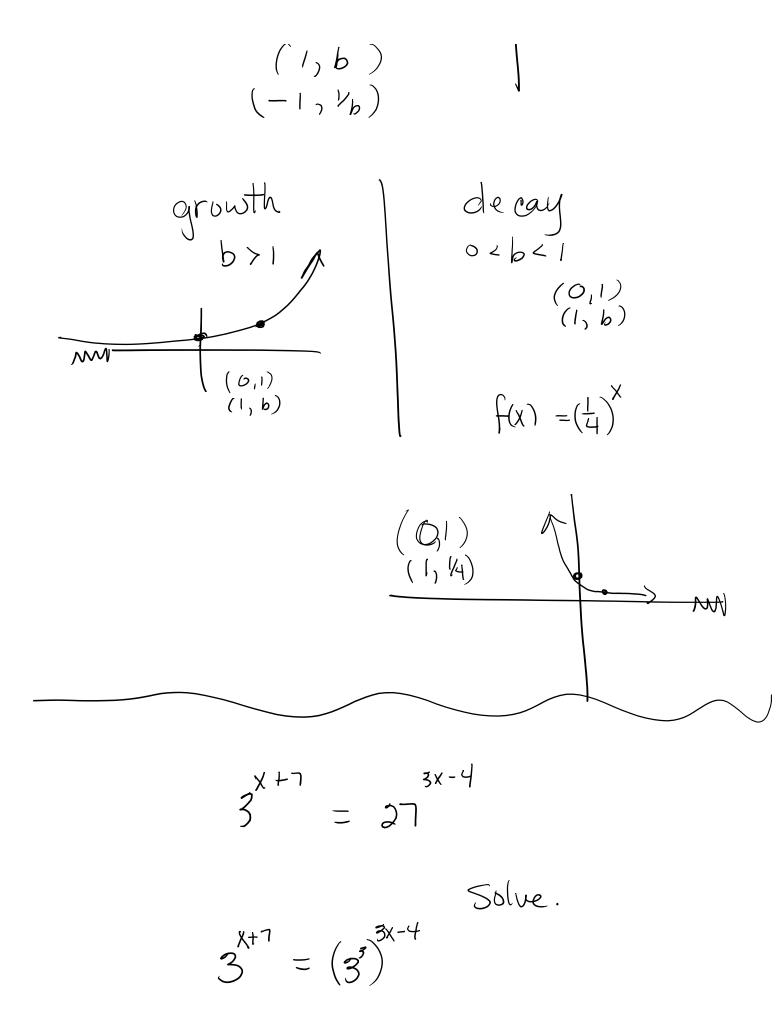
$$2^{2} = 109 + 3$$
  

$$2^{2} =$$

.

3<sup>×</sup> = 951  $\chi \cdot \log 3 = \log 951 \chi = 6.2419$ 10g 951 10g 3 2 Õq 13 χ. 10933





$$3^{X+7} = 3^{9X-12}$$
  
Since bases are  
 $X+7 = 9X-12$   
 $19 = 8X$   
 $19 = 8X$   
 $19 = 8X$   
 $19 = 12$ 

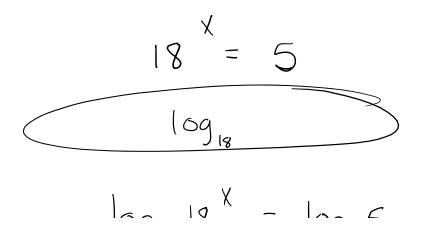
 $\geq$ 

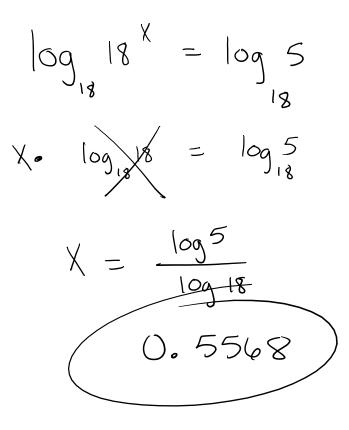
$$4^{7x} = 64^{2x-1}$$

$$4^{7x} = (4^3)^{2x-1}$$

$$4^{7x} = 4^{6x-3}$$

$$7x = 6x - 3$$





$$\log_{3} 7 + \log_{10} = X$$

$$\frac{\log_{3} 8}{\log_{6} 8 + \log_{6} 8} = \log_{6} 8$$

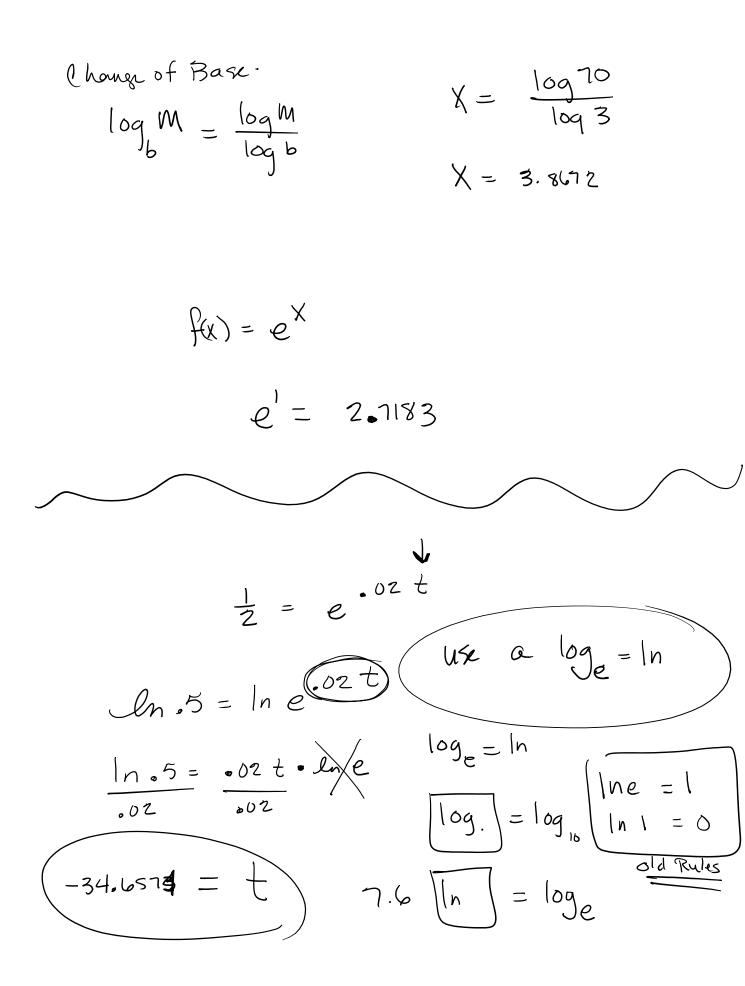
$$\log_{6} 4 + \log_{6} 8 = \log_{6} 8$$

$$\log_{6} 4 - \log_{6} 8 = \log_{6} 8$$

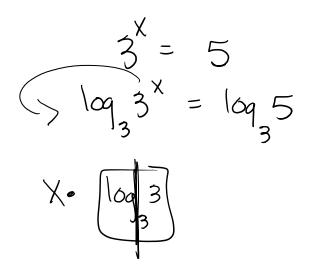
$$\log_{6} 4 - \log_{6} 8 = \log_{6} 8$$

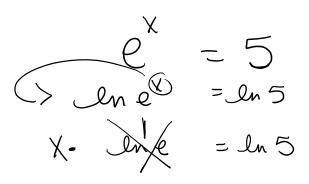
$$\log_{7} 4 - \log_{6} 8 = \log_{6} 8$$

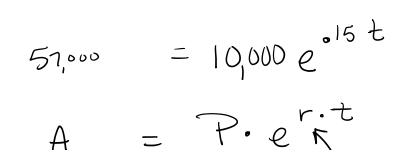
$$\log_{7} 4 - \log_{7} 8 = \log_{7} 8$$











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