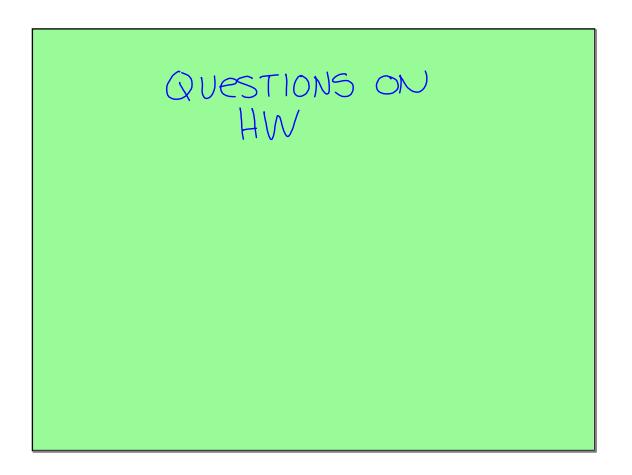


## 

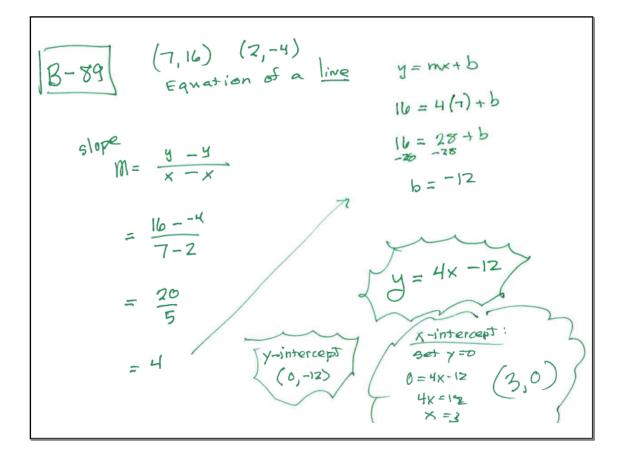
() Solve 
$$(16)^n = 4^{5n+1}$$



$$B-53 = a) \quad 2x + y = -7y \qquad \text{Substitution}!$$

$$2x + (x+io) = -7(x+io) \\ 3x + io = -7x - 7o \\ +7x \qquad io = -70 \\ 10x + io = -70 \\ 10x = 80 \\ x = 8 \qquad \text{Solution} \\ (-8, 2) \end{cases}$$

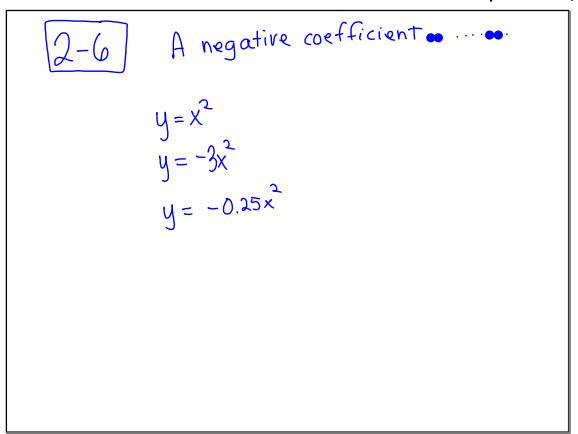
b) 
$$3x = -5y$$
 re-arrange  
 $6x - 7y = 17$   
 $3x + 5y = 0$   
 $6x - 7y = 17$   
 $multiply 1^{5t}$  equation  
 $by -2$   
 $-6x + -10y = 0$   
 $-17y = 17$   
 $y = -1$   
 $3x = -5(-1)$   
 $3x = 5$   
 $x = \frac{5}{3}$   
 $50$  lution  
 $(\frac{5}{3}, -1)$ 

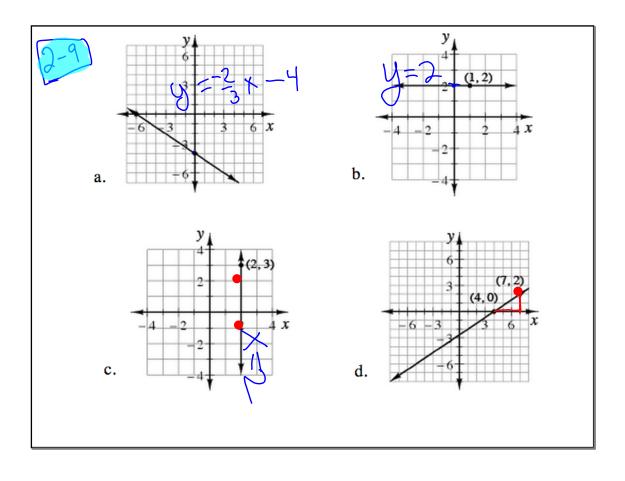


Write  
Exponential functions  
a) (1, 7.5) (3, 16.875)  

$$y = ab^{x}$$
  $y = ab^{x}$   
 $7.5 = ab^{1}$   $16.875 = ab^{3}$   $16.875 = 7.5 b^{2}$   
 $y = ab^{x}$   $b^{z} = \frac{16.575}{7.5}$   
 $a = (7.5)$   
 $a = (7.5)$   
 $b = 1.5 \rightarrow a = 7.5$   
 $y = 5(1.5)^{x}$ 

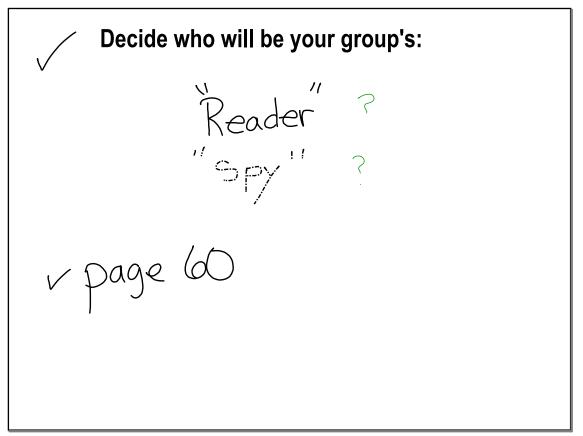
(b) 
$$(-1, 1.75)$$
  $(3, 0.032)$   
 $y = ab^{x}$   $y = ab^{x}$   
 $1.25 = ab^{-1}$   $0.032 = ab^{3}$   
 $1.25 = ab^{-1}$   $0.032 = ab^{3}$   
 $1.25 = ab^{-1}$   $ab^{3}$   $ab^{3} = .032$   
 $a(.4)^{3} = .032$   
 $a(.4)^{3} = .032$   
 $a = \frac{ab^{3}}{.43}$   
 $a = \frac{.032}{.43}$   
 $b^{4} = .025b$   $a = 0.5$   
 $\sqrt{-4}$   $\sqrt{-4}$   $y = 0.5(0.4)^{x}$   
 $b = 0.4$   $y = 0.5(0.4)^{x}$ 



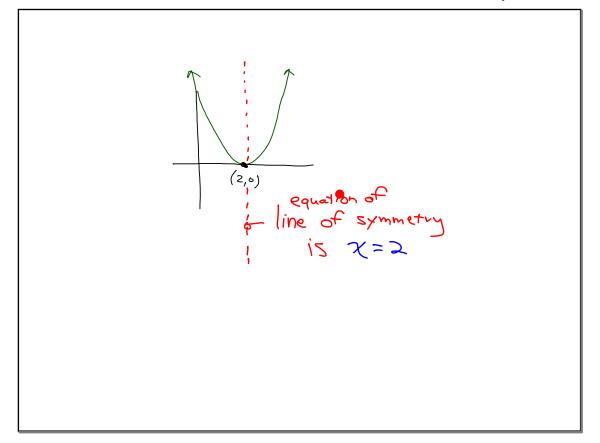


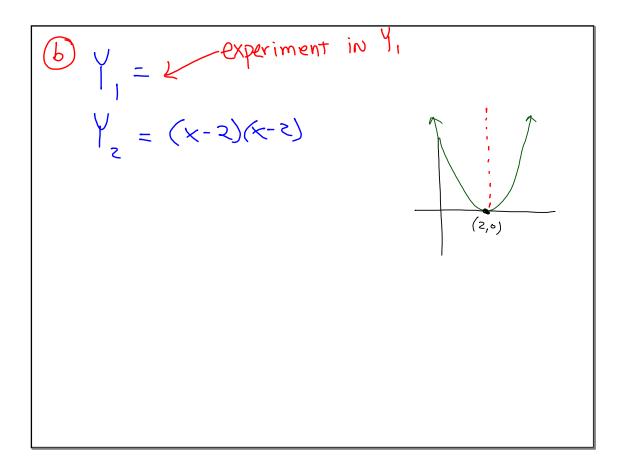
How can I translate (shift) a parabola? im

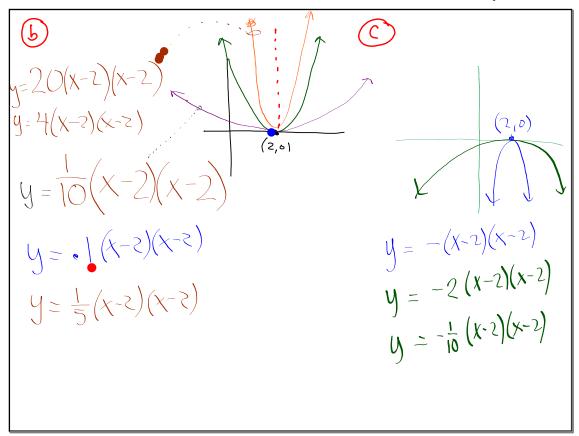
Υ\_\_ =  $\frac{1}{1} = \frac{(\chi - z)(\chi - z)}{1}$ 

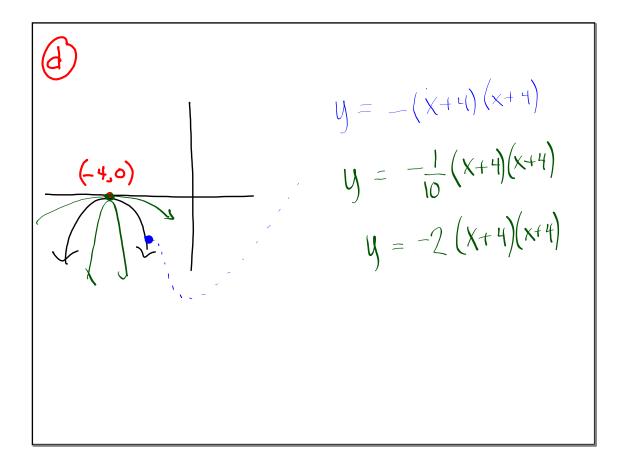


2-11 Core problem Votes I I be circulating to answer questions I will assume you will have discussed
 W/each other first. I the Server can go to another group to get help as needed. - No repeats -



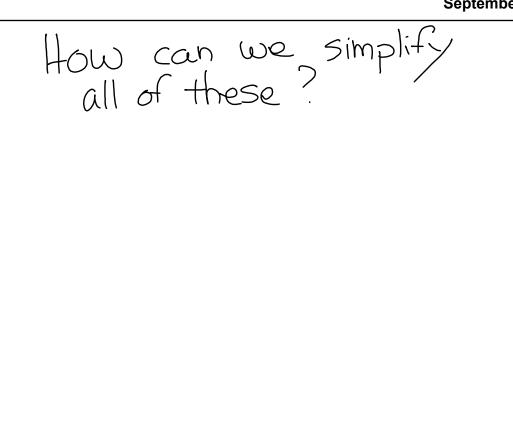


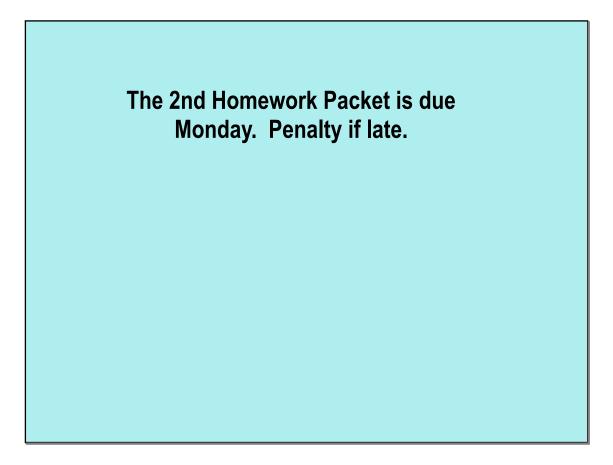




Why does y = (x-2)(x-2) only touch the x-axis at x=2?

Sharing of equations you have developed. parabolas that touch the X-axis only at X=2 (and open downward)





## Assignment

