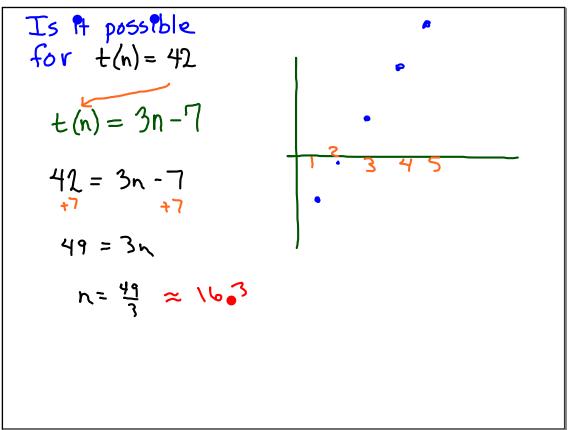


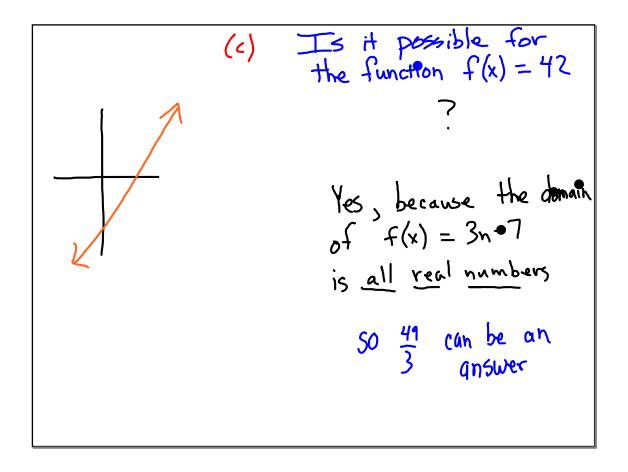
$$t(n) = -4, -1, 2, 5, \dots$$

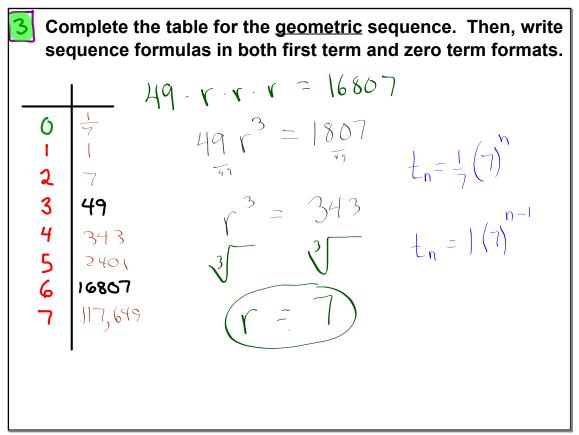


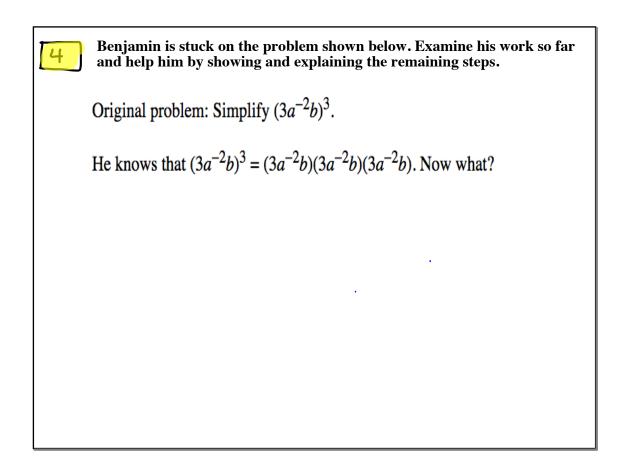
c) Is it possible  
for 
$$t(n) = 42$$
  
 $t(n) = 3n - 7$   
 $42 = 3n - 7$   
 $49 = 3n$   
 $n = \frac{49}{3} \approx 16^{3}$ 

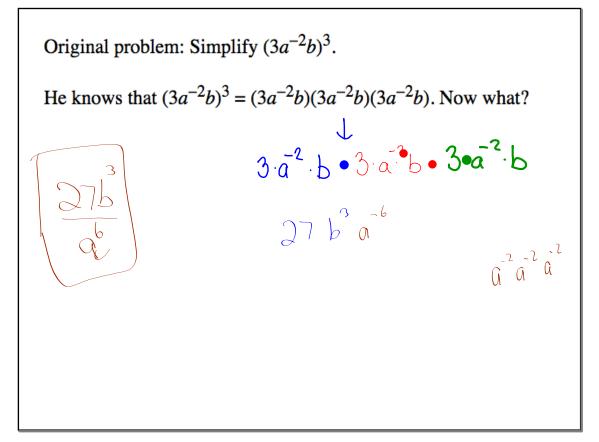
So, NO, the domain of a sequence only includes positive nubmers.

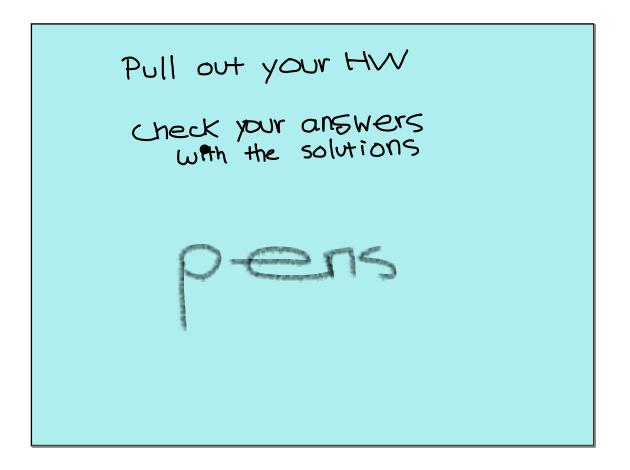




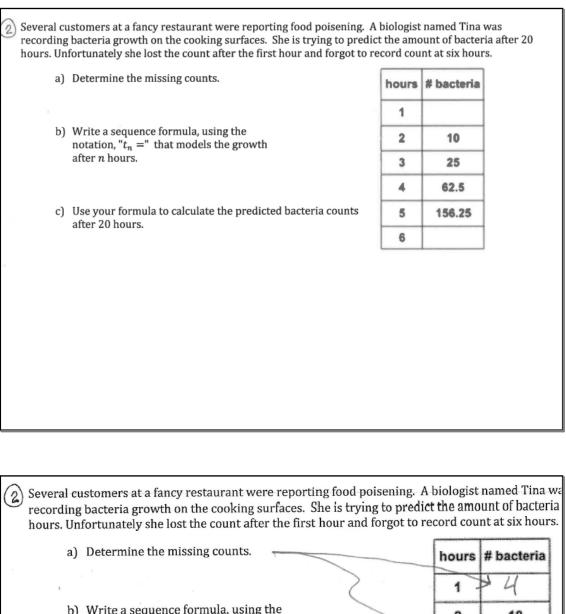








After Test Assignment this will count as the first assignment for the next	Name	Date	
Find the missing terms of the sequer format.	nce and write a sequence for	mula in both zero term and first te	erm
a),, 125,,	, (hint: the multiplie	r is 1.25)	
first term format: $t_n = $	zero te	rm format: <i>t<sub>n</sub></i> =	
b) 4000, 1000, 250,	-,,		
first term format: $t_n = $	zero te	rm format: $t_n =$	
After Test Assignment this will count as the first assignment for the f	NameName	Date	
$\widehat{(1)}$ Find the missing terms of the seq format.	uence and write a sequenc	ce formula in both zero term and	first term
a) <u>50</u> , <u>100</u> , 125, <u>160</u>	15 95, (hint: the mult	tiplier is 1.25)	v
format. a) $\frac{600}{100}$ , $\frac{100}{125}$ , $\frac{600}{125}$ , $\frac{100}{125}$ , $\frac{100}{$	80(1.25) 2	ero term format: $t_n = _64 (1.23)$	)
b) 4000, 1000, 250, <u>b</u>	2.5, 15,1025		
$\frac{1000}{1000} = \frac{250}{4} = \frac{1}{4}$ first term format: $t_n = -$	4000(1) z	ero term format: $t_n = 16,000 \left(\frac{1}{4}\right)$	n
or 4	000 (0.75)		



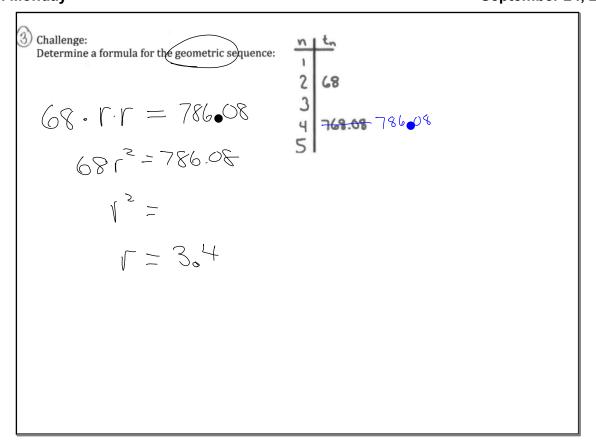
b) Write a sequence formula, using the

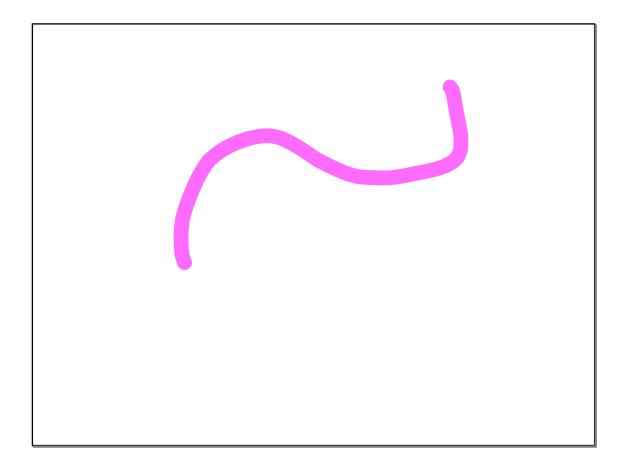
notation, " $t_n =$ " that models the growth after *n* hours. n-1 $t_n = 4(2.5)$ 

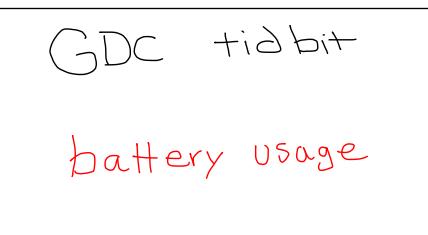
c) Use your formula to calculate the predicted bacteria counts

2 10 3 25 4 62.5 5 156.25 390,62 6

after 20 hours.  $t_{20} = 4(2.5) = (145,519,152)$ 



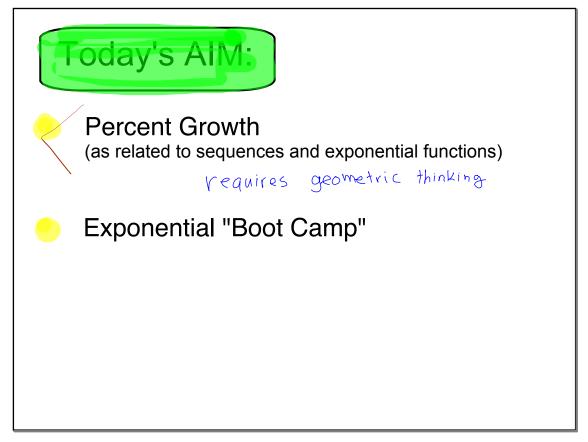




# Four Day Unit

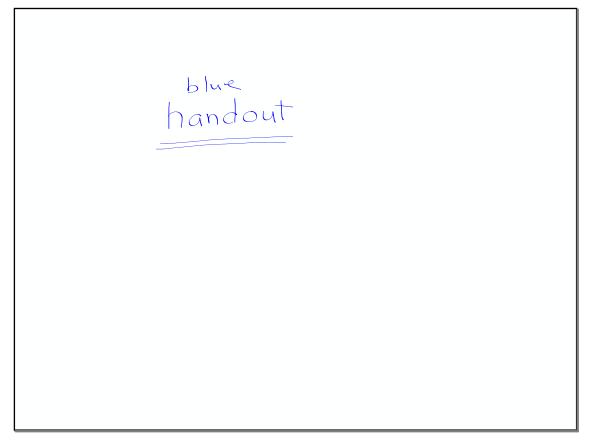
Transfer Skill Review from Alg/Geom

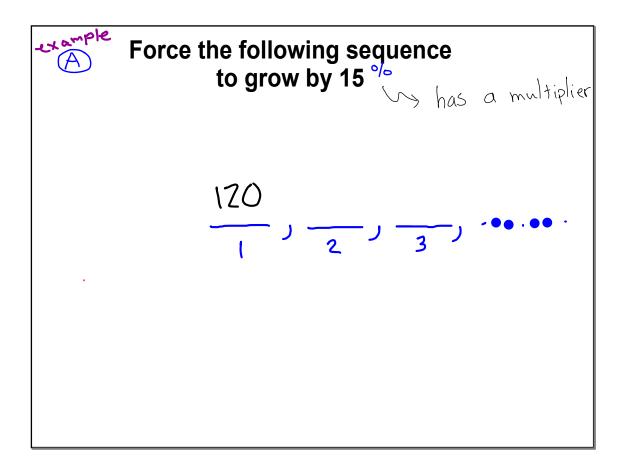
before starting Chapter 2

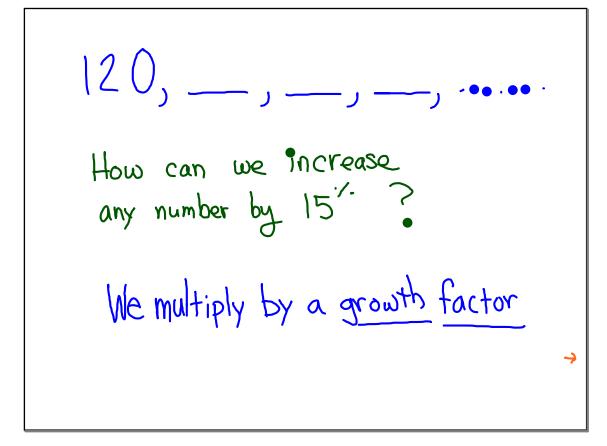


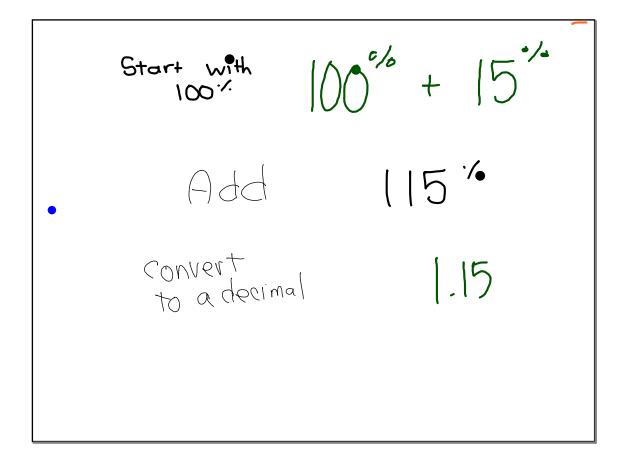
A) Force 120 to grow by 15<sup>1</sup>.  

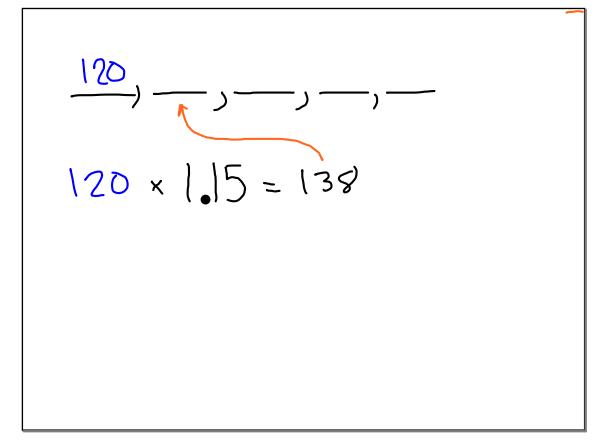
$$x_{120}$$
,  $\frac{138}{0}$ ,  $\frac{154.1}{2}$ ,  $\frac{142.5}{2}$ ,  $\frac{142.5}{120}$ ,  $\frac{1}{120}$ ,  $\frac{1}{15}$   
 $(5^{5^{\circ}} \circ F 120?)$ ,  $(5^{5^{\circ}} \circ growth)$   
 $(.5)(120) = 100^{5^{\circ}} + 15^{5^{\circ}}$   
multiplier  $1 + 15$   
 $1.15$ 

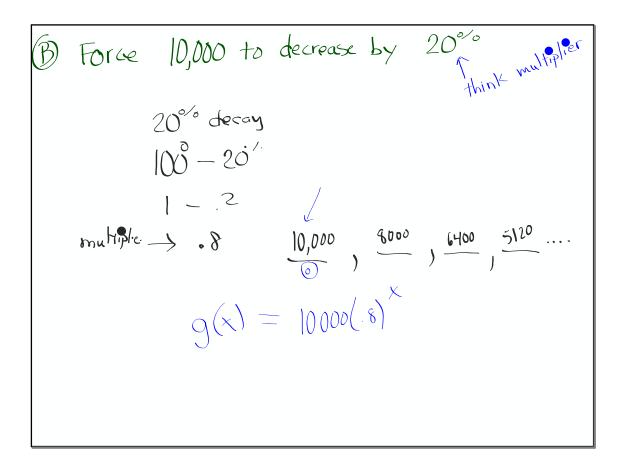


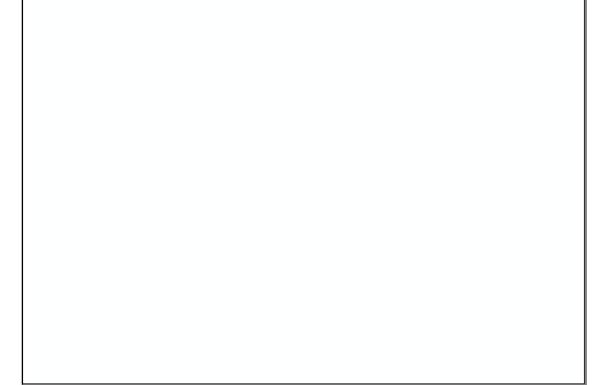


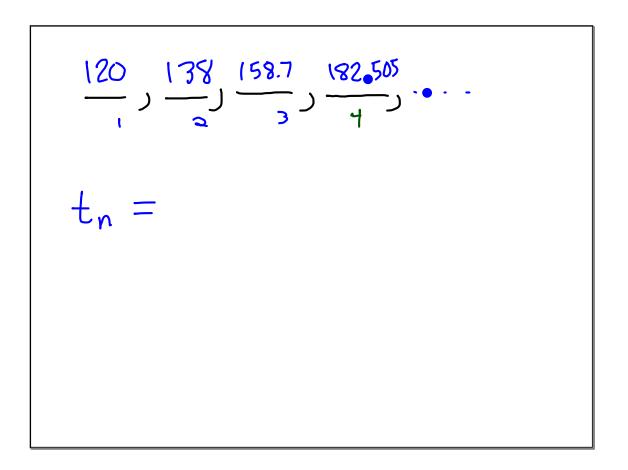


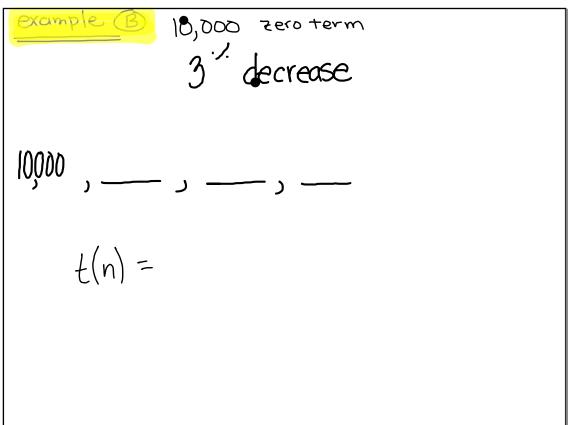


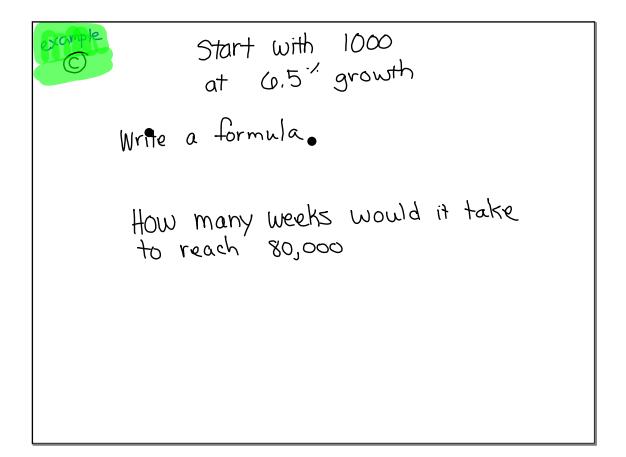


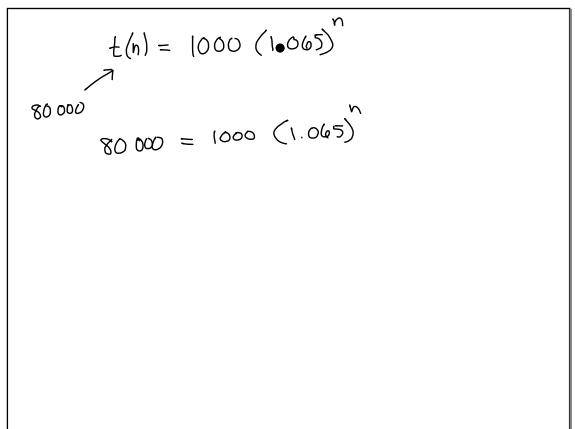






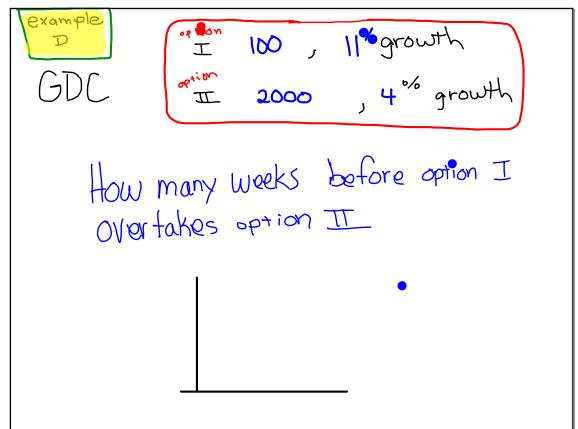


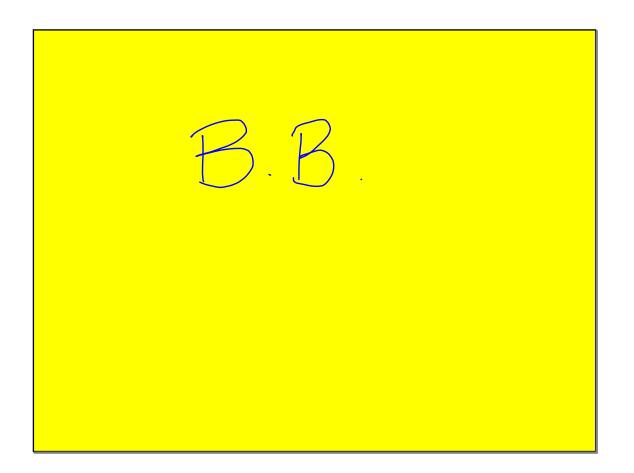


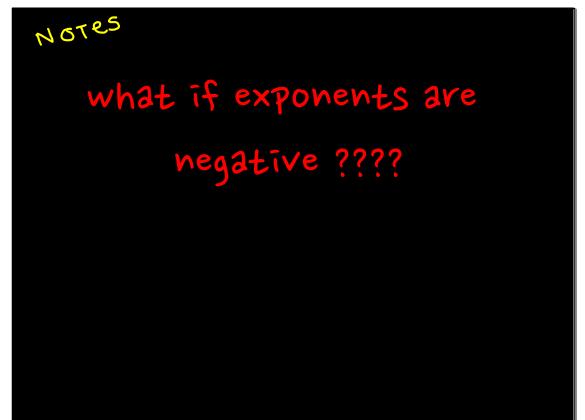


() 1000 ants  

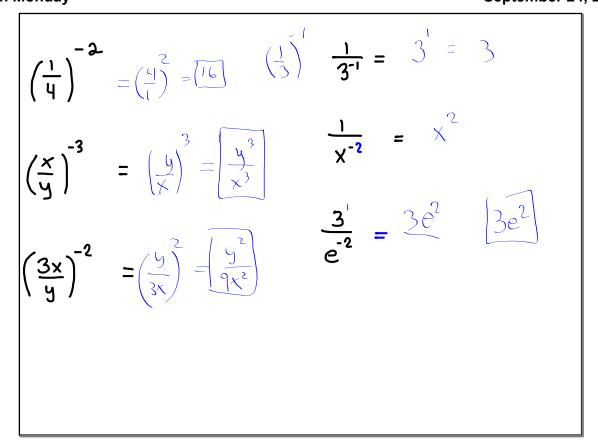
$$+8'$$
 per day a)  $f(x) = 80000 (1.08)^{x}$   
 $+8'$  per day b) How many days will it  
 $take to reach$   
 $80,000$  acts?  
 $1000(1.08)^{2} = 80000$   
 $divide by 1000$   
 $(1,08)^{2} = 80$   
 $Y_{1}$   $Y_{2}$   
 $Y_{2}$   $Y_{2}$   
 $X = 56.9 dayc$ 

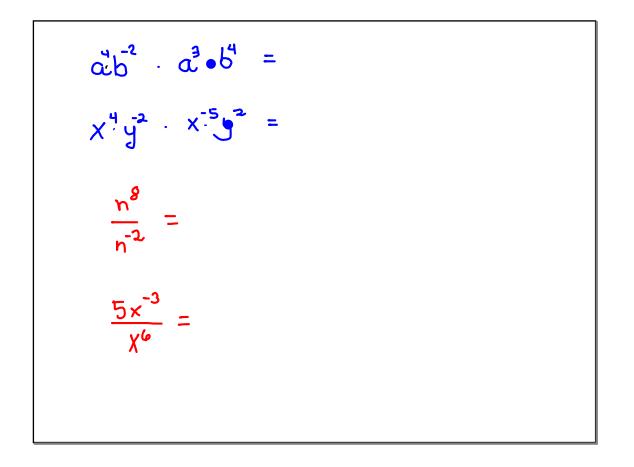


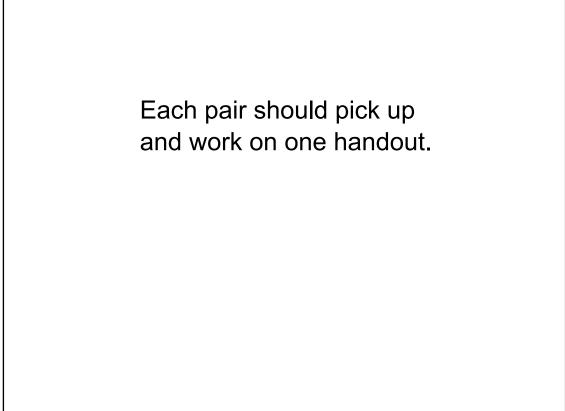


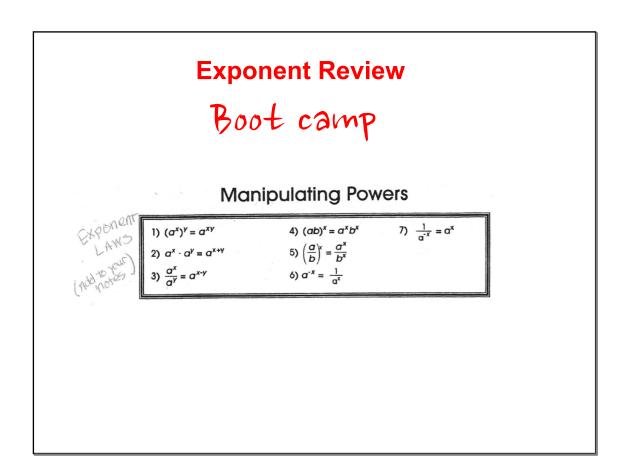


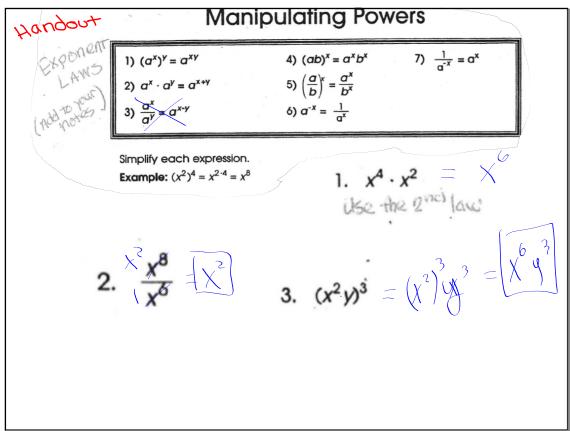
What if there  
were negative  
exponents 
$$p$$
  
 $\left(\frac{3}{5}\right)^{-1} = \frac{5}{3}$   
 $\left(\frac{\alpha}{de}\right)^{-1} = \frac{de}{q}$   
 $\left(\frac{1}{x}\right)^{-1} = X$ 



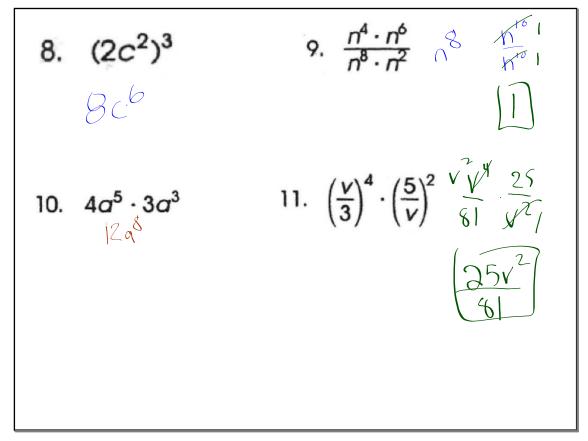




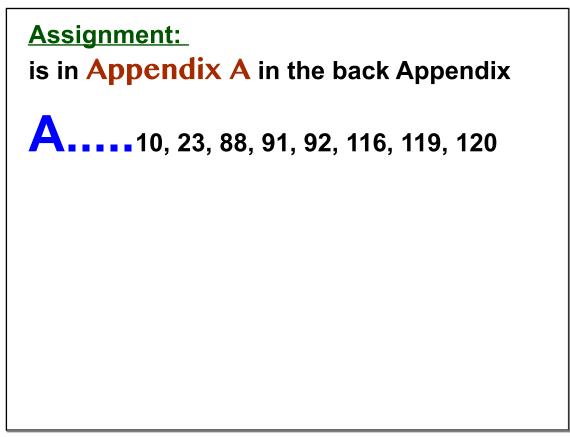




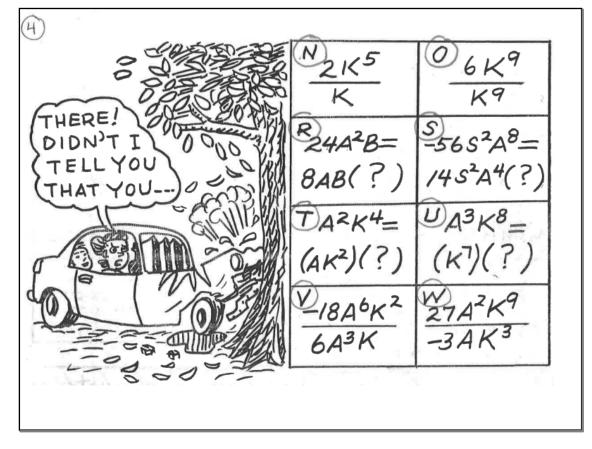
4.  $\left(\frac{x}{y^3}\right)^5 \frac{\chi^5}{9^{15}}$ 5.  $y^{-15} = \frac{1}{y^{15}}$ 6.  $\frac{1}{x^{-15}} \times x^{15}$ 7.  $a^{2} a^{6} \qquad 1$ 

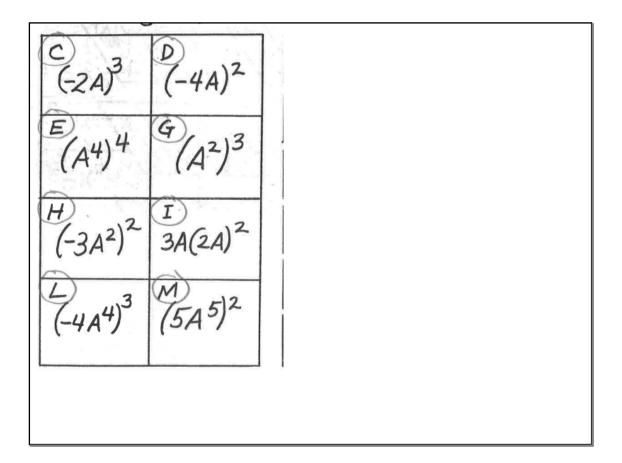


12. $(x^{-2})^2$	13. $\left(\frac{2}{x}\right)^{-1}$









-444	9A <sup>4</sup>	6	A <sup>3</sup> K	-64Å	16Å	No.
3A	A <sup>16</sup>	25A	6	зАК	A16	
AK	9A <sup>4</sup>	A'6		-4A <sup>4</sup>	A <sup>3</sup> K	2K <sup>4</sup>
-4A <sup>4</sup>	-8A <sup>3</sup>	ЗA	A <sup>16</sup>	A <sup>16</sup>	2K <sup>4</sup>	
-94K6	9A <sup>4</sup>	12A <sup>3</sup>	-64A <sup>12</sup>	A16		
16A <sup>2</sup>	3A	12A <sup>3</sup>	-3A <sup>3</sup> K	12A <sup>3</sup>	2K <sup>4</sup>	A <sup>6</sup>