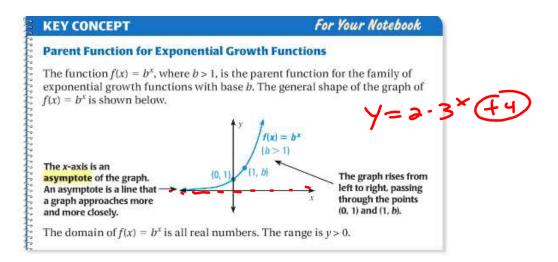
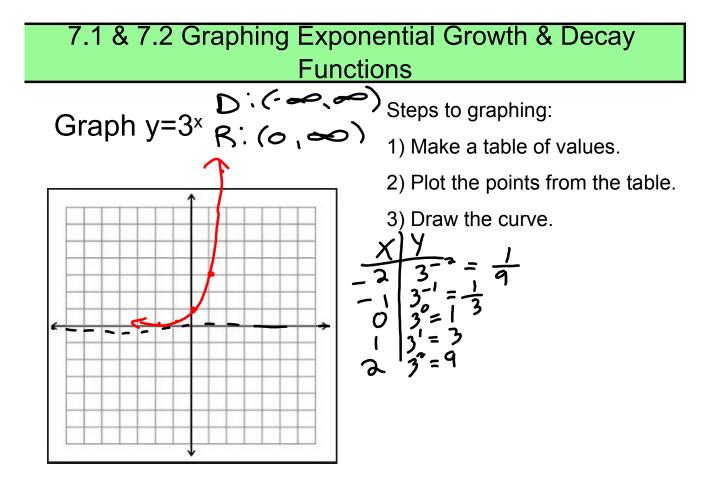


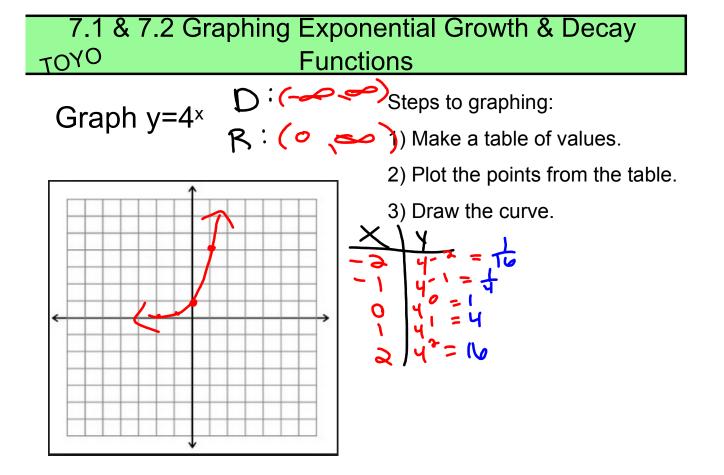
 $\begin{array}{c} \overbrace{1}^{1} -5\sqrt[3]{16} + 2\sqrt[3]{188} & (1) \\ -5\sqrt[3]{8} \cdot 2 & \sqrt[3]{64} \cdot 2 & -5\sqrt[3]{250} + 2\sqrt[3]{16} \\ -5\sqrt[3]{2} & 2\sqrt[3]{2} + 2\sqrt[3]{2} & -5\sqrt[3]{2} + 2\sqrt[3]{2} \\ -10\sqrt[3]{2} & + 2\sqrt[3]{2} & -5\sqrt[3]{2} + 2\sqrt[3]{2} \\ -10\sqrt[3]{2} & + 8\sqrt[3]{2} & -5\sqrt[3]{2} + 2\sqrt[3]{2} \\ -2\sqrt[3]{2} & -2\sqrt[3]{2} \\ -2\sqrt[3]{2} & -2\sqrt[3]{2} \\ -2\sqrt[3]{2} \\ -2\sqrt[3]{2} \end{array}$

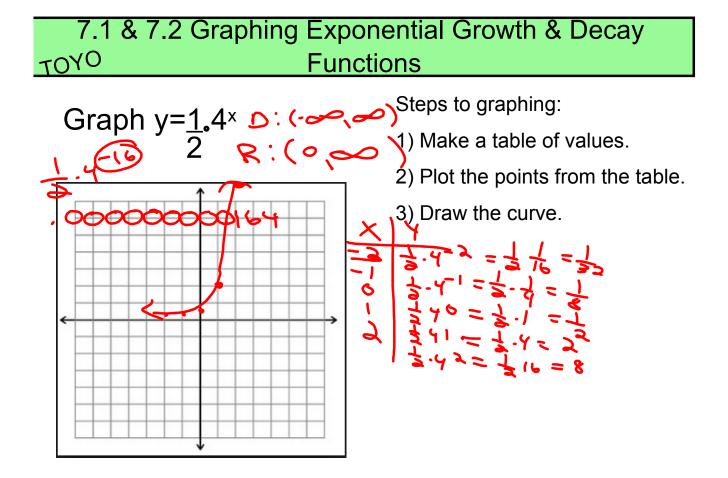
*What is an exponential function? $\gamma = 2 \cdot 3^{\times}$ $y=ab^{\times}$ where $a\neq 0$ and the base b is a positive number other than 1.

*If a>0 and b>1, the function y=ab^x is an <u>exponential growth function</u>, and b is called the growth factor.

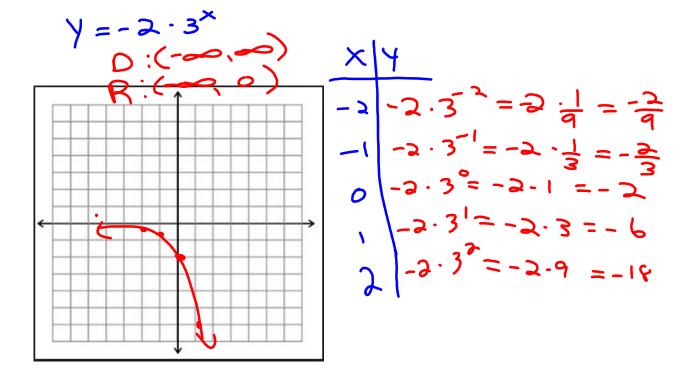








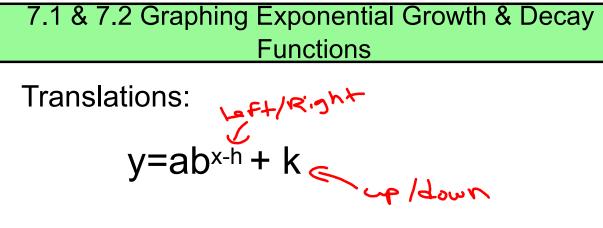
*Spring Break Fun?



What is the y-intercept of the graph y=ab^x?

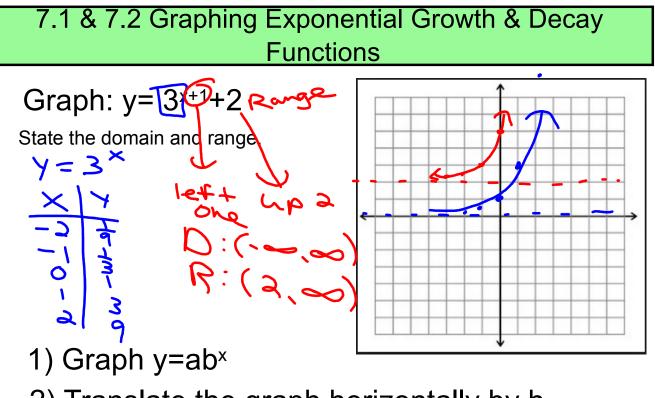
(0,a)

Ex: Find the y-intercept of $y = \frac{1}{4} \cdot 2^{x}$.

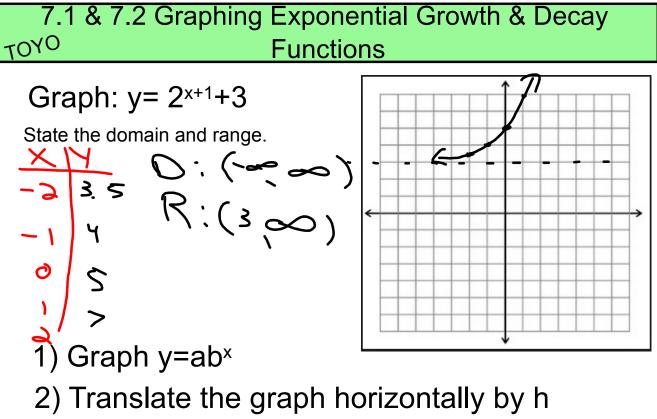


1) Graph y=ab^x

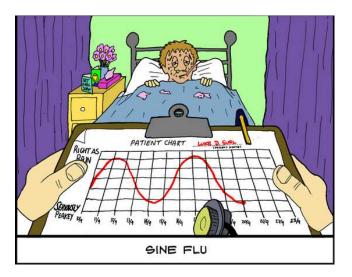
2) Translate the graph horizontally by h units and vertically by k units.



2) Translate the graph horizontally by h units and vertically by k units.

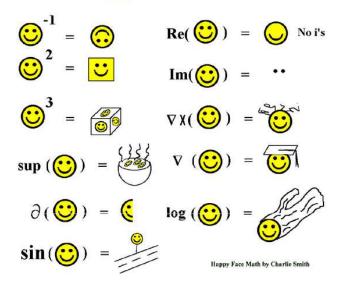


units and vertically by k units.





Happy Face Math



What is the y-intercept of the graph y=ab^x?

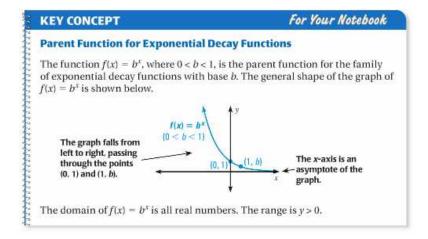
(0,a)

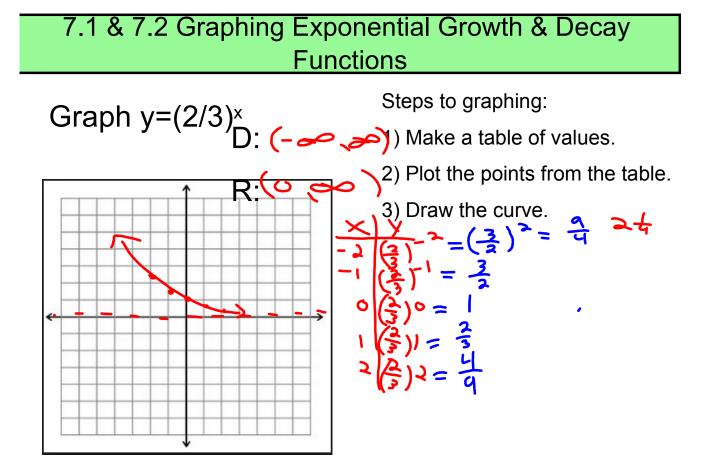
Ex: Find the y-intercept of $y=-(5/2)^{x}$.

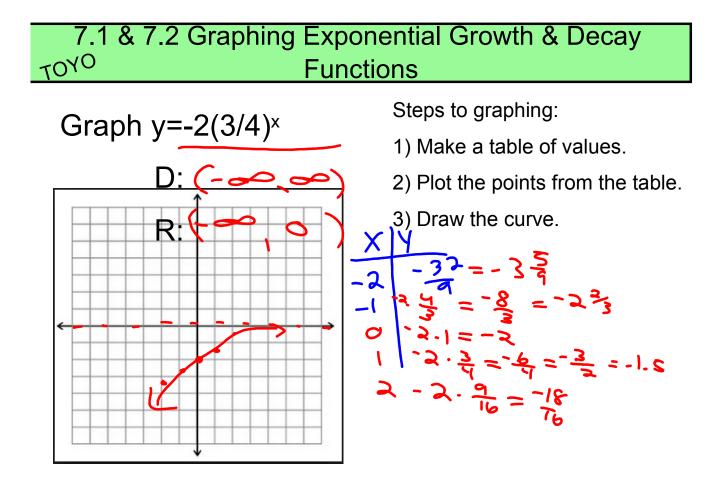
Exponential decay functions-

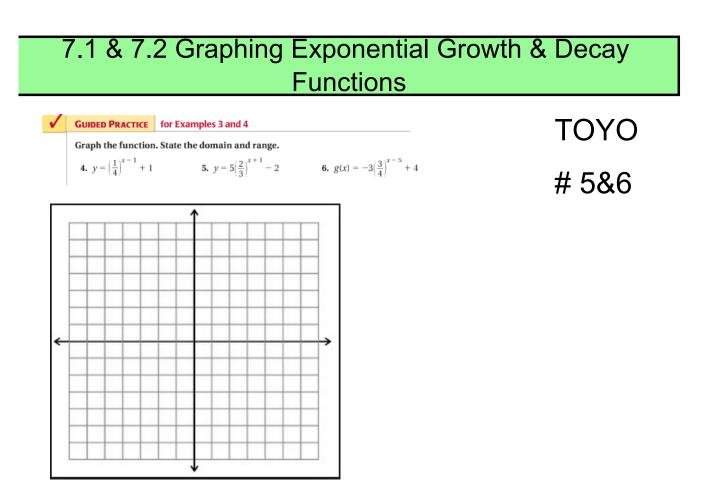
y=abywhere a>0 and 0<b<1

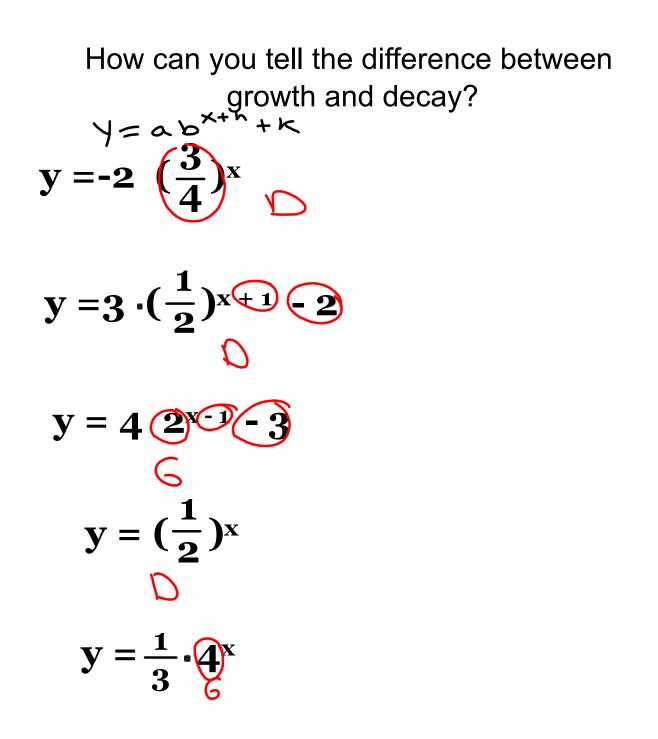
The base b of an exponential decay function is called the decay factor.











*Go over test

Homework:

Page 482 #6-21 multiples of 3

Page 489 #3-6, 9-24 multiples of 3, 25