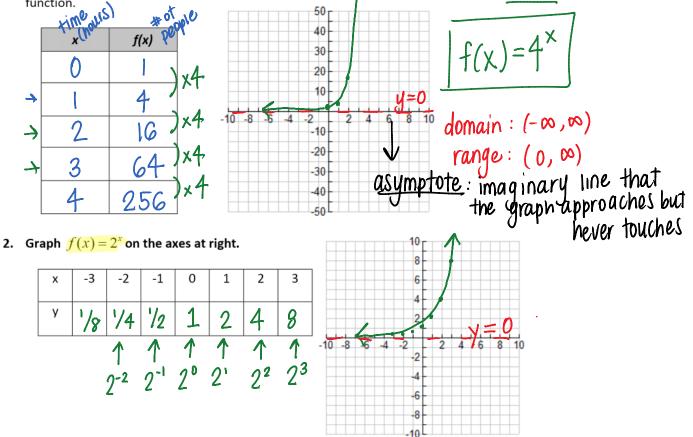
## Advanced Algebra w/ Trig 7.1 Exponential Growth Functions

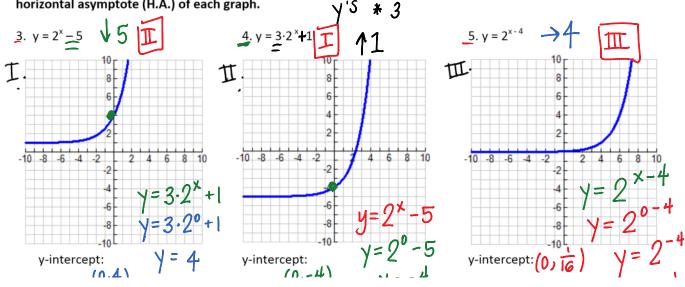
1. Nick posted an embarrassing picture of himself on Facebook (he was doing math homework on the beach over summer vacation...). The photo is quickly spreading like wildfire and the amount of people viewing it quadruples every hour.

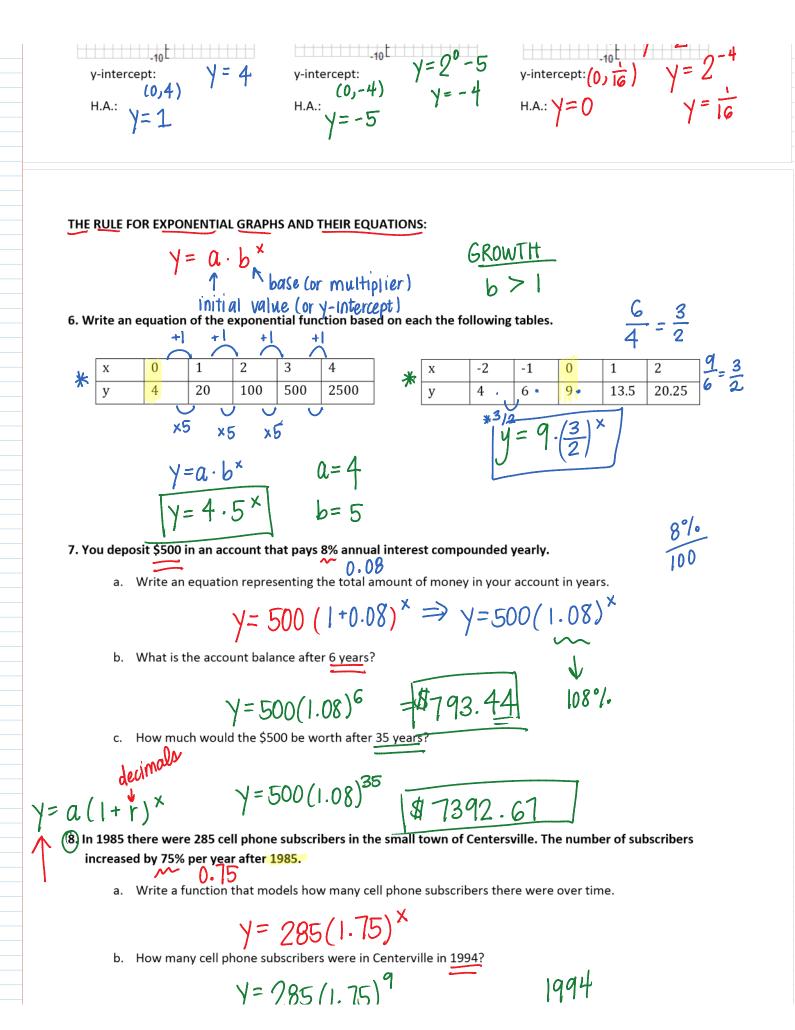
Name:

Complete the table and then sketch a graph to illustrate the situation. Then write an equation to represent the function.



Match the following equations with the corresponding graph. Identify the y-intercept and the equation of the horizontal asymptote (H.A.) of each graph.  $\sqrt{S} \times 2$ 





D. How many cell phone subscribers were in Centerville in 1994? 1994 -<u>1985</u> 9 = X  $Y = 285(1.75)^9$  43,871 people