Name_____ Period_____ Date_____

Int2Acc

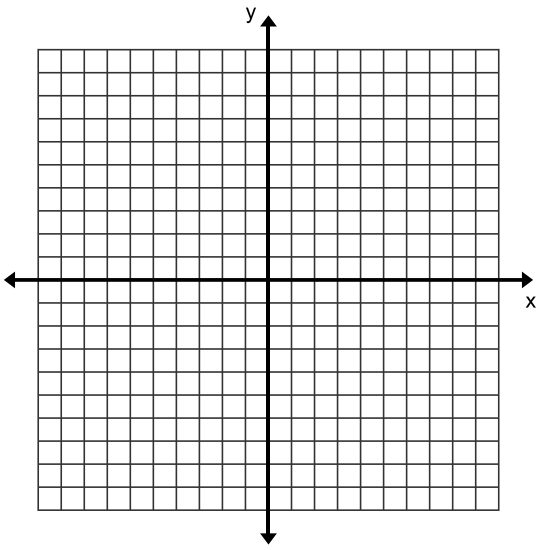
Homework 3-6
Graph Exponential Equations

Unit 3

Make a table for each equation in order to create the graph.

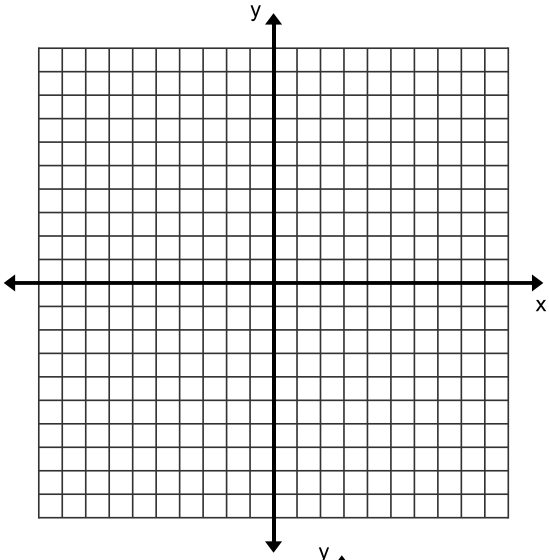
1. $y = 2^x + 2$

x	$y = 2^x + 2$	***y***	***(x, y)***



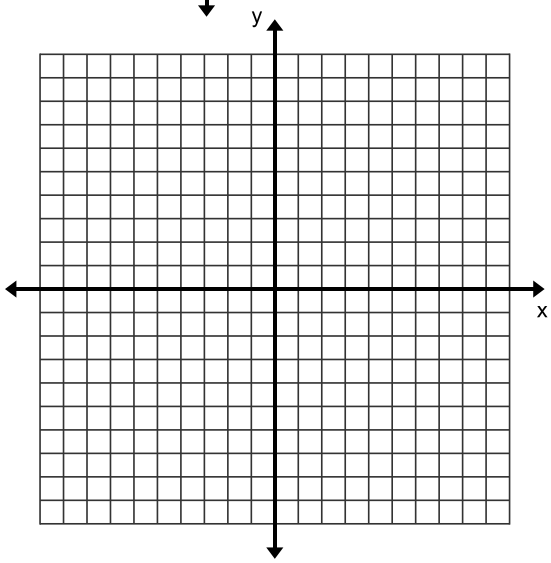
2. $y = -5^x$

x	$y = -5^x$	***y***	***(x, y)***



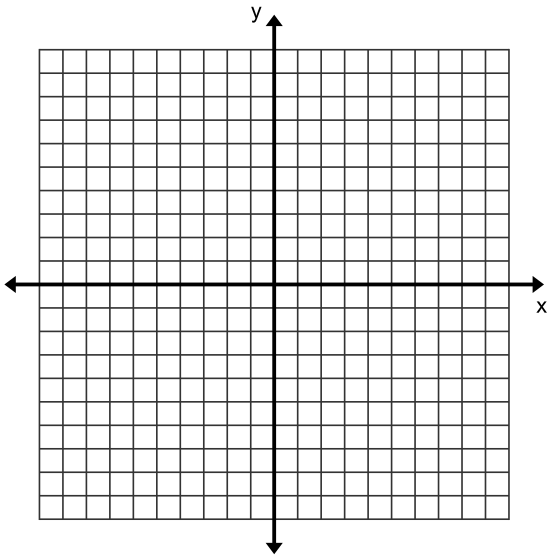
3. $y = -\left(\frac{1}{5}\right)^x - 1$

x	$y = -\left(\frac{1}{5}\right)^x - 1$	***y***	***(x, y)***



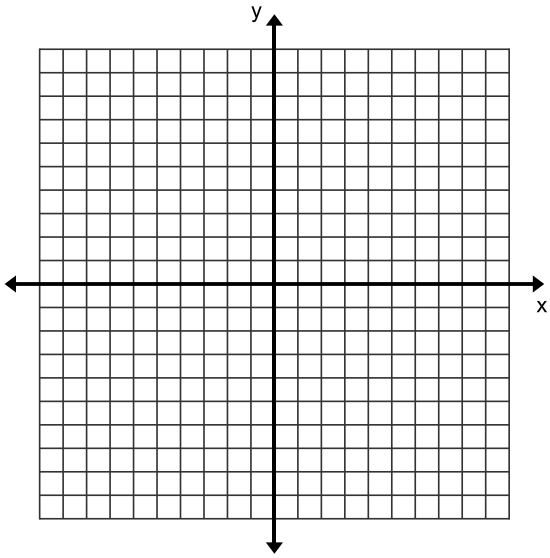
4. $y = 2 \bullet 8^x - 4$

x	***y***	***(x, y)***



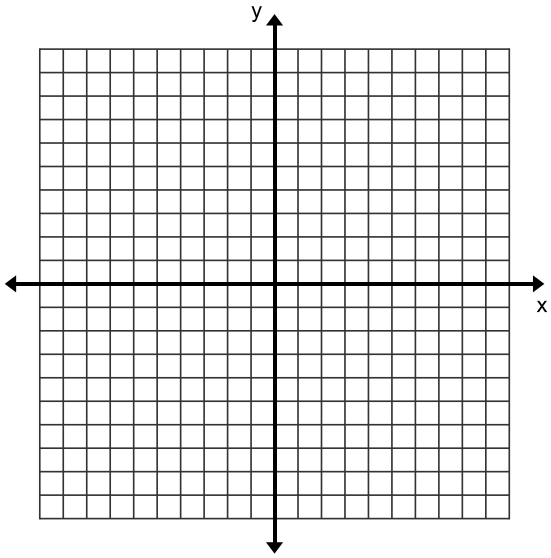
$y = 2 \bullet \left(\frac{1}{6}\right)^x - 2$

x	***y***	***(x, y)***



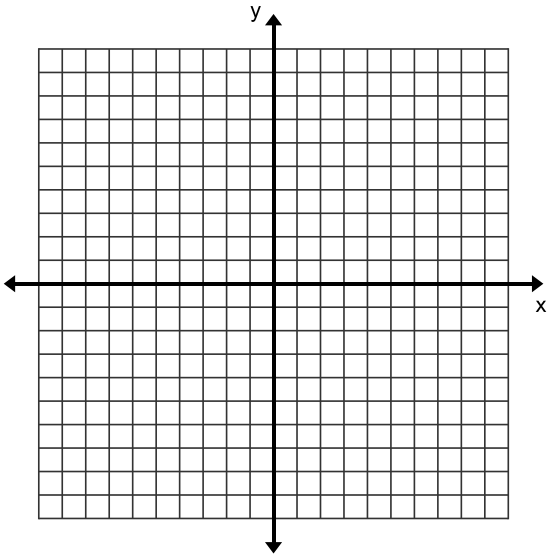
5. $y = -3 \bullet 9^x$

x	***y***	***(x, y)***



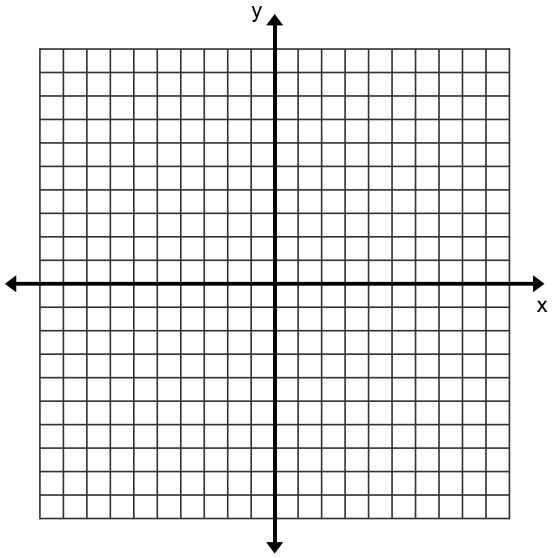
6. $y = 2^x + 3$

x	***y***	***(x, y)***



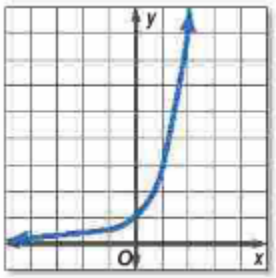
7. $y = -2\left(\frac{1}{2}\right)^x - 1$

x	***y***	***(x, y)***

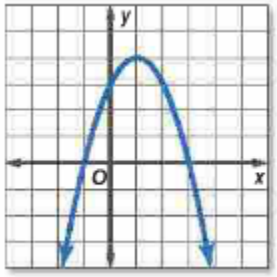


Identify each function as *linear*, *exponential*, or *neither*.

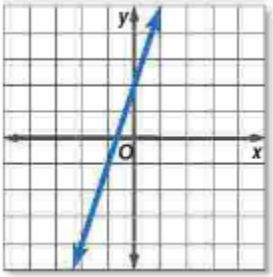
8.



18.



19.



20. Daniel deposited \$500 into a savings account and after 8 years, his investment is worth \$807.07. The equation $A = d(1.005)^{12t}$ models the value of Daniel's investment A after *t* years with an initial deposit *d*.

a. What would the value of Daniel's investment be if he had deposited \$1000?

b. What would the value of Daniel's investment be if he had deposited \$250?

21. The number of graduates at a high school has increased by a factor of 1.055 every year since 2001. In 2001, 110 students graduated. The function $N = 110(1.055)^t$ models the number of students *N* expected to graduate *t* years after 2001. How many students will graduate in 2015?