#83

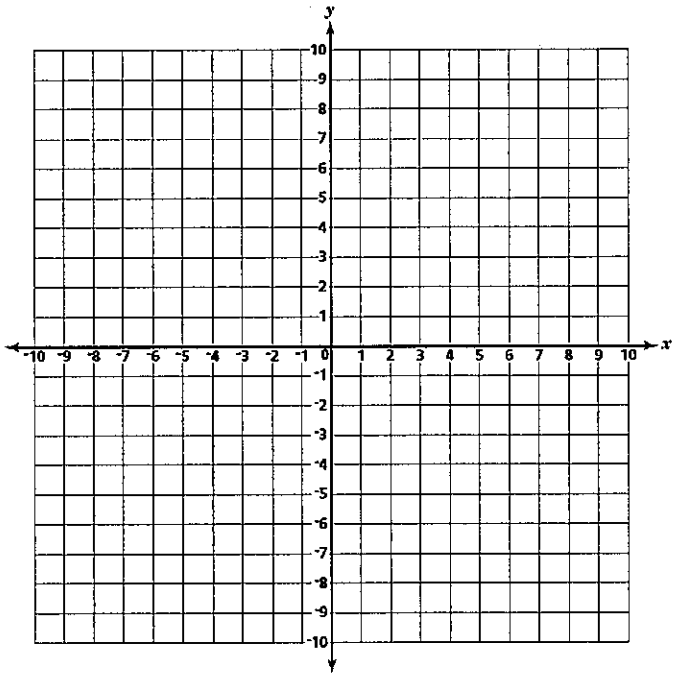
Name _____ Date _____

8A; Algebra 1 Period _____

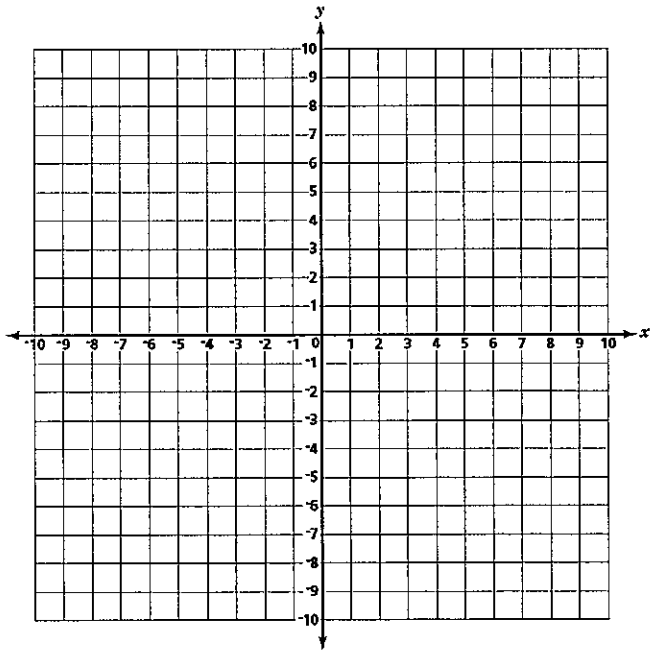
Homework

#1 & 2: Graph the following exponential equations using the given domain

1) $y = 2^{-x}$ $-3 \le x \le 2$



2) $y = 2^{x} + 3$ $[-2, 2]$



3) The graphs of $y = 2^x$ and $y = 3^x$ have which of the following points in common?

(a) (0,1) (b) (1,0) (c) (-1,0) (d) (0,-1)

4) The approximate population growth of a certain bacteria is represented by the function $f(t) = 5(3)^t$. What is the population when t = 4?

(a) 81 (b) 405 (c) 270 (d) 600

5) Explain the transformation the following functions represent as compared to their parent graphs.

(a) $y = 5^x + 2$

(b) $y = 3^{x+7}$

(c) $y = -4^{x-2} + 1$