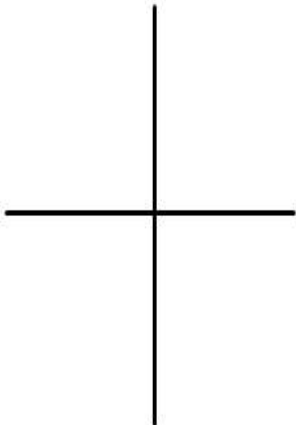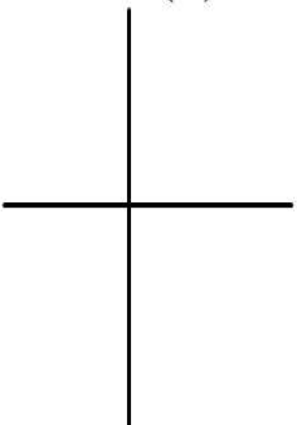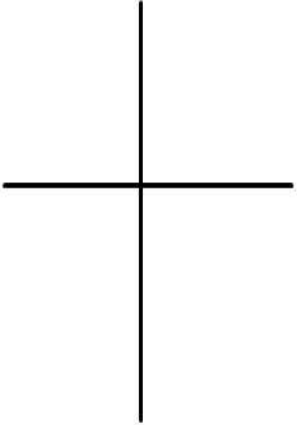## Alg2T DLTarget Quiz
Unit 8 - Chap 7 Day 2 - Graphing Exponentials
Graph. State the domain, and asymptotes.

1.) What makes a function exponential GROWTH - DECAY -	2.) $y = -1 \bullet 2^{x-3} + 1$
3.) $y = 3 \bullet \left(\dfrac{1}{2}\right)^{x+2} - 2$	4.) $y = 3 \bullet 2^{x+2} - 1$

Alg2T DLTarget Quiz
Unit 8 - Ch 7 Day 3 - Applications

1.) Simplify the following: a. $e^{-5}e^{4}e^{-1}$ b. $(2e^{-2x})^{3}$ c. $\dfrac{3e^{5}}{12e^{3}}$	2.) You buy a diamond ring that increases in value from $4500 by 15% each year. What is the value after 6 years
3.) You deposit $4000 in an a account that pays 2.75% annual interest. Find the balance after 4 years if it is compounded... a. Daily b. Quarterly	4.) You buy a boat that decreases in value 23% each year. If you paid $22,000 for it, how much is it worth in 10 years?