Name: _____

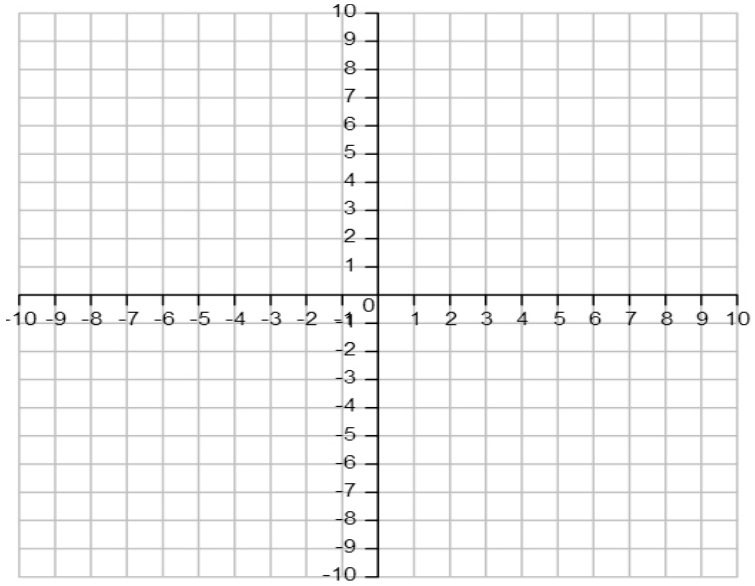
Chapter 4 – Section 4.3 Graphs of Exponential Functions

TICKET-IN-THE-DOOR

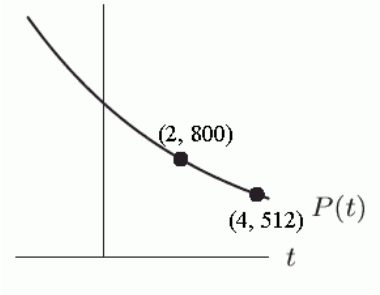
In order to be prepared for class you must watch the module and complete the following activity. This is due first thing when you get to class.

Check your understanding:

1. Graph both $f(x) = 2 \cdot 2^x$ and $g(x) = 2 \cdot (0.5)^x$ without using a calculator. (You need to feel comfortable graphing functions without a calculator on exams!)



2. Write the **formula** of the exponential function $P(t)$ shown below.



3. The following figure gives the graph of $C = f(t)$, where C is the computer hard disk capacity (in hundreds of megabytes) that could be bought for \$500 t years past 1989.
   a. What was the capacity in the year 1993?

   b. If the trend displayed in the graph continued, in what year would the capacity that can be bought for \$500 be 7500?