

Reading Questions for Section 3.3

(5 pts)

Name _____

Due Date: _____

Bring this completed sheet with you to class on the due date to be handed in at the beginning of the period.

- (1) 1. The word *parameter* is first introduced at the beginning of Section 1.5.
Which is true about the parameter b for the exponential function $y = ab^x$? (Select **ALL** possible answers)
- A. It is the growth factor.
 - B. It is the average rate of change.
 - C. It determines whether the graph is increasing or decreasing
 - D. It affects how steep the graph climbs or falls.
- (1) 2. For the exponential function $y = ab^x$, what does the parameter a tell you?
3. The definition of a **horizontal asymptote** is given in this section in the box prior to **Example 1**.
Read this box, and the discussion preceding it, about the horizontal line $Q = 0$.
Then complete the boxes below.
- (1) What notation is used to indicate values of t which become large and **negative**? $t \rightarrow$
- (1) What notation is used to indicate values of t which become large and **positive**? $t \rightarrow$
- (1) 4. Examples 2 and 3 show how to solve exponential functions graphically.
After you read these examples, solve the equation $2300(1.12)^t = 10^6$ graphically.
Report the solution accurate to two decimal places: ____ . ____