

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

- The word *parameter* is first introduced in Section 1.5 on page 35.
Which is true about the parameter b for the exponential function $y = ab^x$? (Select **ALL** possible answers)
 - o It is the growth factor.
 - o It is the average rate of change.
 - o It determines whether the graph is increasing or decreasing
 - o It affects how steep the graph climbs or falls.
- For the exponential function $y = ab^x$, what does the parameter a tell you?
- The definition of a **horizontal asymptote** is given in this section in the blue box on page 124.
Read this blue box, and the discussion preceding it, about the horizontal line $Q = 0$.
Then complete the boxes below.
What notation is used to indicate values of x which become large and **negative**? $x \rightarrow$

What notation is used to indicate values of x which become large and **positive**? $x \rightarrow$
- 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: ____ ____ . ____ ____