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| **CHAPTER 3:** ***Exponential and Logistic Functions* (Pages 245 – 267)** |
| **Objectives:** |
| Define exponential functions. |
| Distinguish between growth and decay.  |
| Graph an exponential function, showing its initial value and its asymptote. |
| How do you find the initial value of an exponential function? |
| **Essential Questions:** |
| What is the model for exponential growth? What is the model for exponential decay? Can you give an actual example of exponential growth? Can you give an actual example of exponential decay?  |
| Define logistic functions as a special type of exponential function. |
| Find the initial value of a logistic function and its 2 asymptotes. |
| Find the inflection point of a logistic function. |
| Model actual situations with exponential and logistic functions. |
| **Technology:** TI-84 plus graphing calculator |

***TUESDAY, 11.19.24***

**Be ready to discuss and show your previously assigned work:**

* Quick Review \_\_\_ Page 264 (#1 – 10)
* Page 265 (#19 – 22)
* Pages 264, 265 (#1 – 13 odd)

**Class Work/Homework:**

* Pages 264, 265 (#2 – 14 even)

***THURSDAY, 11.21.24***

**Be ready to discuss and show any previously assigned work.**

**Class Work/Homework:** Page 264 (#16 – 18).

***FRIDAY, 11.22.24***

**Discuss and show your work for page 264, #16 – 18.**

**Review for the Quiz** *(Writing an exponential function that satisfies the given conditions*). You may use one page of notes, front and back, written on one sheet 8.5 by 11-inch paper. This quiz will be on **Tuesday, 11.26.24.**