**Unit 2 (Exponentials and Logs)**

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| Main Topic/Book Section | Objectives | Assignments |
| 3.1 | * Graph an exponential function
* Solve exponential equations
* Solve compound interest problems
* State domain and range of an exponential function
 | 1) p. 226-227 #’s 17-22, 47-50, 54, 58, 64 |
| 3.2 Logarithmic Functions | * Define logarithms
* Rewrite expressions
* Evaluate logs with and without calculator
* Use definition of log and inverse property to simplify expressions
* Graph logarithmic functions using a calculator
 | 2) p. 236-237 #’s 2-38 (even) 3) p. 237 #’s 46-86 (even), 88, 97  |
| 3.3 Properties of Logs | * Prove properties of logs
* Condense expressions
* Expand expressions
* Use change of base formula to rewrite logs
 | 4) p. 244 #’s 2-78 (even), 79 |
| 3.4 Exponential and Logarithmic Equations | * Solve exponential equations
* Solve logarithmic equations
 | 5) p. 253 #’s 10-20 (even), 38-52 (even), 6) p. 254 #’s 74, 78-84 (even), 93-97 |
| **Quiz** |  | 7) AWESOME LOG PROBLEMS |
| 3.5 Exponential and Logarithmic Models | * Solve compound interest problems
* Solve population growth models
* Solve logistic growth models
* Solve problems concerning Richter Scale and Decibels
 | 8) p. 264 #’s 18, 19, 38, 43, 44, 469) p. 267 #’s 51-54, 57-62 |
| **Review** |  |  |
| **Test**  |  |  |