**CBGS Algebra II/Pre-Calculus** Chapter 3: pp. 387-458 Exponential and Logarithmic Functions

Day	Text (Ch./Sec.)	Topics	Homework
1 1/20 (Fri.)	Ch. 3/Sec. 1 (pp. 388-400) <b>"Exponential</b> <b>Functions"</b>	<ul> <li>Evaluating and graphing exponential functions</li> <li>characteristics and transformations of exponential functions</li> </ul>	pp. 396-397; nos. 11, 13, 15, 25-33 odd note for 11, 13, 15: graph from characteristics, not from a table as indicated in instructions.
2 1/23 (Mon.)	Ch. 3/Sec. 1 (pp. 388-400) <b>"Exponential</b> <b>Functions</b>	<ul> <li>natural base</li> <li>a brief history of the number <i>e</i></li> <li>applications of exponential functions</li> </ul>	pp. 397-398; nos. 35-45 odd, 53, 55, 65, 66, 74
3 1/25 (Wed.)	Ch. 3/Sec. 2 (pp. 400-413) <b>"Logarithmic</b> <b>Functions"</b>	<ul> <li>Defining and evaluating logarithmic functions</li> <li>common and natural logarithms</li> <li>properties of logarithms (part 1)</li> <li>graphs, characteristics, and transformations of logarithmic functions</li> </ul>	pp. 410-411; nos. 1-41 odd, 53, 61, 67-73 odd warning! Lengthy assignment!
4 1/26 (Thur.)	Quiz on Ch. 3 Secs. 1-2	• Quiz	ТВА
5 1/31 (Tues.)	Ch. 3/Sec. 3 (pp. 413-422) "Properties of Logarithms"	<ul> <li>properties of logarithms (part 2)</li> <li>expanding and condensing logarithms</li> <li>change of base property</li> </ul>	pg. 421; nos. 3, 7, 13, 15, 19, 21, 23, 25, 31, 35, 43, 45, 47, 49, 53, 59, 61, 63, 65
6 2/2 (Thur.)	Ch. 3/Sec. 4 (pp. 423-436) "Exponential and Logarithmic Equations"	<ul> <li>solving exponential equations</li> <li>using logarithms to solve exponential equations</li> <li>solving logarithmic equations</li> </ul>	pp. 432-433 ; nos. 3, 7, 13, 17, 21, 25, 27, 31, 33, 35, 37, 41, 43, 51, 55, 63, 65, 69, 71, 77, 79, 91, 95
7	Ch. 3/Sec. 5 (pp. 436-451) "Exponential Growth and Decay; Modeling Data"	• Exponential growth and decay models including carbon dating, logistic growth models, and Newton's law of cooling	pp. 447-449; nos. 7-8, 15, 17, 31, 33, 37, 43, 45, 47, 49
8	Test Review: Ch. 3: Secs. 1-5	•	Study for test
9	Test: Ch. 3; Secs. 1-5	•	None