

## TEST ONE TOPICS AND SUGGESTED HW PRACTICE PROBLEMS

## CHAPTER ONE-FUNCTIONS AND MODELS

- Section 1.2-Linear Functions Problems: Pages 36-39 #13,15,17,22,25,26
- Section 1.3-Exponential Functions and Models Problems: Pages 53-55 #9-15 all,17,19,21,22,23-29 odds
- Section 1.4-Logistic Functions and Models, using Limit Notation (see #17-20 all, 23, and 24) Problems: Pages 65-68 #1-11 all, 14,15,17-20 all
- Polynomial Functions and Models Problems Pages 81-84 #1-14 all, 16, 17ab,19,21,23,24

## CHAPTER TWO-DESCRIBING CHANGE USING RATES

- Section 2.1-Change, Percentage Change, and Average Rates of Change Problems: Pages 107-111 #1-15 odds, 17-21 odds, 22
- Section 2.2-Instantaneous Rates of Change: Problems: Pages 125-127 #25, 27, 30ab, 31
- Section 2.3-Derivative Notation Problems: Pages 140-143 #1-15 odds, 17ab, 19b, 20 (omit part e)
- Section 2.4-Algebraically Finding Derivatives (This is the section covering using the limit definition

$$f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h} \text{ ) Problems: Pages 155-156 #9-17 odds, 21,22}$$

## CHAPTER THREE-DERIVATIVES

- Section 3.2-Derivative Formulas Problems Pages 185-188 #7-27 all, 30,31,34,35,37
- Section 3.3-Exponential and Logarithmic Derivatives Problems: Pages 195-196 #7-20 all, 25, 28,30,33
- Section 3.4-The Chain Rule Problems: Pages 203-205 5,7,17-29 all, 33,37,39,41,46