

A.P. Calculus (All dates and assignments tentative at my discretion.)
Chapter 3 – Applications of Differentiation

Date: _____ : **Absolute Extrema**
p. 165 1-6 all, 11, 15, 17, 19, 21, 23, 27, 29, 33, 51-54,
p. 104 90, 91, 92 (22)

Date: _____ : **Rolle's Theorem and Mean Value Theorem**
p. 172 1, 7, 8, 11, 13, 25, 31, 33, 35, 41, 43, 47 (12)

Date: _____ : **Increasing and Decreasing Functions, Find f given f', f' given f**
p. 181 1, 3, 13, 15, 23, 29, 33, 45, 49, 51, 53, 61 (12)

Date: _____ : **Concavity**
p. 189 1, 2, 5, 11, 13, 27, 31, 50, 51, 53 (27 and 31 Do not use 2nd derivative test.)
p. 172 14, 16

Date: _____ : **Limits at Infinity, Asymptotes**
p. 189 52, 56
p. 199 1-5, 13-31(odds)
p. 208 10, 13, 16, 17 (10, 16, and 17 just find asymptotes.)
Handout 1, 35, 36, 37 (24)

Date: _____ : **Complete Analysis of Graphing Functions**
Handout 39, 40, 42
p. 200 48
p. 204 Work out example 2
p. 208 11, 17 ($y' = \frac{x^2 - 8x + 12}{(x - 4)^2}$, $y'' = \frac{8}{(x - 4)^3}$), 31, 51, 54, 56 (11)

Date: _____ : **Continue Complete Analysis**
p. 165 22
p. 172 8, 14, 34
p. 181, 50, 62
p. 189 47, 55
p. 199 20, 23, 28, 30
p. 208 12, 32
Handout 38 (15)

Date: _____ : **Chapter 3 Quiz 1**
Study the following problems for quiz 1.
p. 165 19
p. 172 11, 13, 31
p. 189 11, 51
p. 199 19, 25, 27, 28, 31
p. 208 10, 16, 17, 29
Handout 37, 38, 39 (18)

Date: _____ : **Optimization**
p. 216 3, 7, 17, 19c, 24, 27, 33 (7)

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Chapter 3 – Applications of Differentiation Continued

Date: _____ : Continue Optimization
p. 216 5, 9, 20c, 23, 25c, 29
Handout 1,4 (8)

Date: _____ : Newton's Method
p. 226 1, 3, 5 ($x_1=1$), 11 ($x_1=1.7$), 13 ($x_1=-1$), 27
p. 216 11, 18
Handout 5 (9)

Date: _____ : Differentials
p. 233 1, 3, 11-20 (odds), 29, 31, 35a, 45, 47
p. 226 4 (13)

Date: _____ : Linear Motion
p. 233 14, 35b
p. 226 6
Approximate $\sin\left(\frac{5\pi}{36}\right)$ use $x = \frac{\pi}{6}$
 $S(t) = 3t^2 - 12t + 1$ [0,5]
 $S(t) = t^3 - 9t^2 + 15t - 10$ [0,7] (0,6)

Date: _____ : Chapter 3 Quiz 2

Date: _____ : Review Day

Date: _____ : Test Chapter 3