

## Homework: Test 3

Same requirements as previous homework: Write down original problem from text with instructions; show work; check your answer in the back of the book; correct any problems with incorrect answers; score yourself based on the number of problems done correctly (after you've done your check and necessary corrections).

Assign. Date	Read this section:	Do these problems:	Problems done correctly/ Total
Mon 3/1/10	<b>Section 2.6:</b> Differentiability	2.6, pg 107: 1, 2, 3, 4, 5, 10, 14 (For number 5 and number 14: Rewrite as a piecewise function and analyze the slope of the tangent on either side of $x = 0$ , THEN apply the limit definition in finding $f'(0)$ ; for all other problems, analyze using the graph only.)	<input type="text"/> /7
Fri 3/5/10	<b>Section 3.1:</b> Powers and Polynomials	3.1, pg 121: 1, 2 $f'(x) = 17$ , 3, 4 (power rule doesn't apply), 5, 7 – 47 eoo, 55, 61, 63, 65, 67	<input type="text"/> /21
Mon 3/8/10	<b>Section 3.2:</b> The Exponential Function	3.2, pg 126: 1 – 35 odd, 43	<input type="text"/> /19
Mon 3/8/10	<b>Section 3.3:</b> The Product and Quotient Rules	3.3, pg 130: 1, 3 – 31 odd, 45, 49	<input type="text"/> /18
Wed 3/10/10	<b>Section 3.4:</b> The Chain Rule	3.4, pg 137: 1 – 49 eoo, 51, 55, 59, 63, 67, 71, 79, 81	<input type="text"/> /21
Wed 3/10/10	<b>Section 3.5:</b> The Trigonometric Functions	3.5, pg 143: 3 – 39 eoo, 41, 45, 47, 53	<input type="text"/> /14
Fri 3/12/10	<b>Section 3.6:</b> The Chain Rule and Inverse Functions	3.6, pg 149: 1 – 33 odd, 40 (on 40, use the Change of Base Formula for logs), 41, 43	<input type="text"/> /20
Mon 3/15/10	<b>Section 3.7:</b> Implicit Functions	3.7, pg 153: 1 – 29 odd, 33	<input type="text"/> /16
Wed 3/17/10	<b>Section 3.9:</b> Linear Approximation and the Derivative	3.9, pg 162: 1, 5, 7, 9, 11, 13, 20, 21	<input type="text"/> /8
Fri 3/17/10	<b>Review for Test 3</b>	See Review Sheet for Test 3  Note: You will be asked to (1) give the <u>definition of the derivative</u> and (2) find a derivative using the definition, since those problems were frequently missed on Test 2	<input type="text"/> /37
Mon 3/22/10	<b>Test 3</b>		