

ESSENTIAL CALCULUS FALL 2009

HIGHLIGHTS

IMPROVEMENTS

1. Added multiple choice questions for the following 31 sections (listed by chapter):
 - 1.6a
 - 2.1a, 2.1b, 2.2b, 2.3b, 2.4, 2.5a, 2.5b
 - 3.1, 3.2, 3.4a, 3.4b, 3.5
 - 4.1a, 4.1b, 4.4, 4.5
 - 5.1, 5.2, 5.3
 - 6.1, 6.2, 6.3b, 6.4, 6.5
 - 7.1, 7.4, 7.5
 - 8.1, 8.2, 8.3
2. Added 2 questions for finding the break-even points for revenue and costs functions (Section 1.8).
3. Added 4 questions for using the Product Rule or Quotient Rule to find the derivative. These are simplified versions of existing questions (Section 3.1).
4. Added 4 questions for using the Chain Rule to find the derivative. These are simplified versions of existing questions (Section 3.2).
5. Added 5 questions for identifying critical points and using the First Derivative Test (Section 3.4b).
6. Added 16 questions for finding the second derivative, identifying intervals of concavity, and identifying points of inflection (Section 4.1a).
7. Added 10 questions for finding the second derivative and using the Second Derivative Test to locate any local extrema (Section 4.1b).
8. Added 9 questions for applications using the derivative (Section 4.5).
9. Added 3 questions for finding the derivative of an exponential function. These are simplified versions of existing questions (Section 5.4).
10. Added 10 questions for finding the definite integral (Section 6.3b).
11. Added 2 questions for partial derivatives (Section 8.2).

MULTIMEDIA

1. Video has been added for all sections.