

Last update: Mon Dec 3 14:45:46 MST 2007

/m160.fa07/handouts160/t3-160_C04/REVSTUFF/review_suggestions_3.tex

1 This list is now in final form.

2 Test #3 is

Tuesday
12/4/07.

3 The test will cover the material of Assignments #22 – #32, roughly, that is, sections

(a) 5-4 is *not* on Test #3

(b) 5-5: extremes on $[a, b]$

(c) 5-6: optimization story problems

(d) 6-1: antiderivatives, the waitress joke, and simple differential equations

(e) 6-2: using a substitution

(f) 6-3: the differential equation $\frac{dy}{dx} = k \cdot y$ and its famous solutions: exponential growth and decay (note that this is different from $\frac{dy}{dx} = k \cdot x$)

(g) B-1: Summation notation and the formulas for $\sum_{k=1}^n k$ and $\sum_{k=0}^n r^k$

(h) Use of the $\sum_{k=0}^n r^k$ formula in compound-interest problems (Assignment #29)

(i) 6-4: Interpretation of $\int_a^b f(x) dx$ in terms of (sometimes “signed”) area

(j) 6-5: Use of antiderivatives to find the value of $\int_a^b f(x) dx$

(k) 7-1: Area between curves

(l) 8-1: Functions of more than one variable and three-dimensional coordinates

4 Problems to try:

(a) page 357: 50, 51, 52 (BOBA in BOB)

- (b) page 358: 64, 65
- (c) page 419: 5, 6, 10
- (d) page 420: 18-25
- (e) page 420: 43, 44 and page 421: 51, 52
- (f) page 420: 32-42 and 421: 46-50

5 From the old-test collection:

- (a) Test #2, 3/17/99: problem 6
- (b) Test #1, 2/14/03: problme 2
- (c) Test #2, 3/19/03: problem 6
- (d) Test #3, 4/18/03: problmes 1, 2, 3, 4a, 4b, 5, 6, 7