

## Math 1100 Chapters 4, 5, & 6 Test Review

About the test: No notes. Calculators are allowed, but storing notes, etc. on them is cheating. You may not use a cell phone. You must show your work to get credit, so be careful of having your calculator do something you should be doing yourself. Simplify your answers as far as possible. Points are taken off for rounding and labeling errors. Seating during the test is every other seat.

Topics and things to know:

- derivatives of exponential and logarithmic functions
- logarithmic differentiation
- exponential growth relating to population (memorize)
- compound interest (memorize)
- percent rate of change (memorize)
- elasticity (formulas provided)
- spread of information by mass media or by word of mouth (formulas provided)
- integrals
- definite integrals

Extra Credit Review Problems (15 points)

- 4.2: 21,24
- 4.3: 3,12,28,34,43
- 4.5: 2,3,10,17,22,31
- 4.6: 22,24,32
- 5.1: 2,8,10
- 5.2: 1,10,17
- 5.3: 10,13,19
- 5.4: 11,12
- 6.1: 23,36,55
- 6.3: 2,14,25,34,40,42,43