

MAC 1105 FINAL EXAM (SU'09) (125 pts.)

R4, R5 (5); R7(5); R8(5); 2.1, 2.2(5)
2.3(5); 2.4(5); 3.1(5); 3.2, 3.3(5); 3.4, 3.5(5)
4.3, 4.4(5); 5.2, 5.3(5); 6.1, 6.2(5); 6.3, 6.4(5)
6.5, 6.6(5); 6.7(5)

New material:

- 6.8 ① Exponential growth and decay (5)
12.1 ② Solving a system of linear equations using the method of elimination. (10)
12.1 ③ Solving a word problem with 2 equations in 2 unknowns. (10)
12.6 ④ Solving a system of nonlinear equations. (10)
12.6 ⑤ Setting up a system of nonlinear equations from a verbal description. (5)
12.7 ⑥ Solving a system of linear inequalities (10) (this may be a word problem.)

Note: Be sure to know the formulas

growth: $A = A_0 \cdot 2^{t/d}$ (doubling time = d)
decay: $A = A_0 \cdot 2^{-t/h}$ (half-life = h)

This is a 125 point exam. (75 points on older material, 50 points on new material.)

It will count 25% of the course grade, unless you do better than the unit exam average. Then it counts 50% of the course grade.