

MATH 261----EXAM 1

February 13, 7 PM

The examination will consist of 10 questions. The first 8 will be multiple choice, and you should circle your answer in the test booklet. The other two problems will require you to work out a problem, and insert your answer in a box. Your work as well as the answer(s) will be graded.

The examination will cover the first 13 lectures.

You should review your classroom notes and homework assignments. Some practice problems (and we give some answers):

P 812: 24, 37

P 820: 33, 39, 42[(7, -4, 3)], 59

P 690: 11, 16, 23

P 837: 27, 28, 33, 35

P 842: 49, 55

P 855: 21, 23

P 861: 17, 19, 25,

P 868: 5, 15 (only $T(t)$)

P 878: 9, 13, 16, 26 [$v_0 = \sqrt{4000g}$]

P 908: 29

P 921: 18, 27, 49, 51, 57

P 929: 5, 6

P 976: 25, 26

Key words:

Lines, planes, parallel, perpendicular, equations of quadratic equations in two and three variables (\sections 10.5, 12.6) curves, velocity, acceleration, graphs ($z=f(x,y)$) in three dimensions or using level curves), partial derivatives, tangent planes.