## EXAM 2

Math 212, 2014-2015 Fall, Clark Bray.

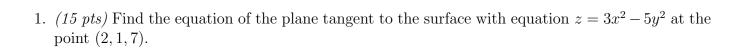
You have 50 minutes.

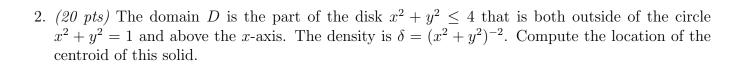
No notes, no books, no calculators.

## YOU MUST SHOW ALL WORK AND EXPLAIN ALL REASONING TO RECEIVE CREDIT. CLARITY WILL BE CONSIDERED IN GRADING.

All answers must be simplified. All of the policies and guidelines on the class webpages are in effect on this exam.

Total Score \_\_\_\_\_ (/100 points)





3. (25 pts) The solid R is bounded by the paraboloid  $z = r^2 - 12$  and the cylinder  $y^2 + z^2 = 1$ . Density is given by  $\delta = e^z$ . Write down, but do not evaluate, a triple iterated integral that represents the moment of inertia of this solid around the line described by x = 3 and y = 7.

