10 minutes
5 points for each question
No calculators allowed

Math 285.002
Quiz 8
November 10, 2000

Name

Do all of your work directly on this sheet, using the back for scratch if necessary. *Circle your answers, and simplify them as much as possible.*

1. Without converting to polar coordinates, find $\iint_D 2x^2 y \, dA$, where D is the region bounded from below by the x-axis and from above by the circle with center the origin and radius 1.

2. Now redo the first exercise by converting to a double integral in polar coordinates.