Name:
November 3, 2016
MAC 2313.9728
Cyr

Quiz 10
You must show all work to receive full credit!!

Problem 1. (5 points) Use polar coordinates to evaluate $\iint_D \frac{y^2}{x^2+y^2} dA$, where $D = \{(x,y) \,|\, 1 \leq x^2 + y^2 \leq 9\}$.

Problem 2. (5 points) Evaluate $\iiint_E (x-y) dV$, where E is enclosed by the surfaces $z = y^2 - 1, z = 1 - y^2, x = 0$, and $x = 1$.