"QUIZ" for Lecture 15

E-MAIL SCANNED .pdf OF COMPLETED QUIZ to DrZcalc3@gmail.com (Attachment: qXFirstLast.pdf) ASAP BUT NO LATER THAN Oct. 29, 8:00pm

1. Use polar coordinates to compute the double integral

$$\int \int_D xy \, dA \quad ,$$

where

2. Evaluate the iterated integral by converting it to polar coordinates

$$\int_0^1 \int_0^{\sqrt{1-y^2}} e^{x^2+y^2} \, dx \, dy \quad . \quad = \quad \left| \int \int e^{\mathbf{r} \cdot \mathbf{r}} \, d\mathbf{r} \, d\theta \right|$$

Note: The previous version had a typo (dy dx) instead of dx dy, that made it nonsense). I thank Yidi "Wendy" Weng for pointing it out (and see won a dolllar).

