"QUIZ" for Lecture 15

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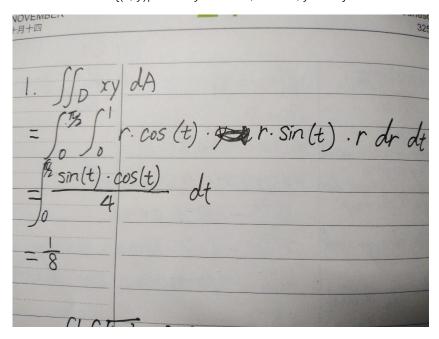
E-MAIL SCANNED .pdf OF COMPLETED QUIZ to DrZcalc3@gmail.com (Attachment: qXFirstLast.pdf) ASAP BUT NO LATER THAN Oct. 29, 8:00pm

1. Use polar coordinates to compute the double integral

ZZDxydA,

where

$$D = \{(x, y) | x^2 + y^2 \le 1, x \ge 0, y \ge 0 \}.$$



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

$$Z 0 -> 1 Z 0 -> \sqrt{(1-y^2)}e^{(x^2+y^2)}dx dy$$
.

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).

