

“QUIZ” for Lecture 20

NAME: (print!) _____ **Section:** _____

E-MAIL SCANNED .pdf OF COMPLETED QUIZ to DrZcalc3@gmail.com (Attachment: q20FirstLast.pdf) ASAP BUT NO LATER THAN Nov. 16, 8:00pm

1. Find an equation for the tangent plane to the parametric surface

$$x = v^2 \quad , \quad y = u + v \quad , \quad z = u^2 \quad ,$$

at the point $(1, 2, 1)$. Simplify as much as you can!

2. Evaluate the surface integral

$$\iint_S z \, dS \quad ,$$

where S is the triangular region with vertices $(2, 0, 0)$, $(0, 2, 0)$, $(0, 0, 2)$.