"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!

$$r = V^{2}i + u + V^{2} + u^{2} + v^{2} + v^{$$

(n x r = (2,4,2)

2. Evaluate the surface integral

$$\int \int_{S} z \, dS \quad ,$$

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

$$Z=V$$
 $r(r, \theta) = 0(+0) + rk$
 $r_{v} = 0(+0) + rk$
 $r_{o} = 0(+0) + 0h$
 $r_{o} = 0(+0) + 0h$