"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

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

$$I = \gamma^{2} \qquad \text{at the point (1, 2, 1). Simplify as much as you can!} \\ 2 = u + \gamma \qquad I = u^{2}; u = v = I \\ r = \langle v_{1}^{2}, u + v_{1}, u^{2} \rangle = \rangle \langle v_{1} z_{1} \rangle \\ r_{u} = \langle 0, 1, \partial u \rangle = \rangle \langle 0, 1, \partial \rangle \qquad -2(x - 1) + 4(\gamma - 2) - 2(z - 1) = 0 \\ (x - 1) - 2(\gamma - 2) + (z - 1) = 0 \\ (x - 1) - 2(\gamma - 2) + (z - 1) = 0 \\ r = \langle \partial x_{1} \rangle \rangle \qquad = \rangle \langle \partial_{1} \rangle \rangle \\ r_{v} = \langle \partial y_{1} \rangle \rangle \qquad = \rangle \langle \partial_{1} \rangle \rangle \\ r_{v} = \langle \partial y_{1} \rangle \rangle \qquad = \langle \partial_{1} \rangle \rangle \\ r_{v} = \langle \partial y_{1} \rangle \rangle \qquad = \langle \partial_{1} \rangle \rangle \\ r_{v} = \langle \partial y_{1} \rangle \rangle \qquad = \langle \partial_{1} \rangle \rangle \\ r_{v} = \langle \partial y_{1} \rangle \\ r_{v}$$

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).

$$\frac{764 - (-2, 203)}{PR = (-2, 0, 2)}$$

$$\frac{PR = (-2, 0, 0)}{R = 2}$$

$$\frac{1}{R} = \frac{7}{2} \frac{1}{R} = (-1)^{2} \frac{1}{R} + \frac{1}{R} + \frac{1}{R} + \frac{1}{R} = 8$$

$$\frac{1}{R} + \frac{1}{R} + \frac{1}{R} + \frac{1}{R} = 8$$

$$\frac{1}{R} + \frac{1}{R} + \frac{1}{R} + \frac{1}{R} = 8$$

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$$\frac{1}{R} + \frac{1}{R} + \frac{1}{R} + \frac{1}{R} + \frac{1}{R} + \frac{1}{R} = 8$$

$$\frac{1}{R} + \frac{1}{R} +$$

