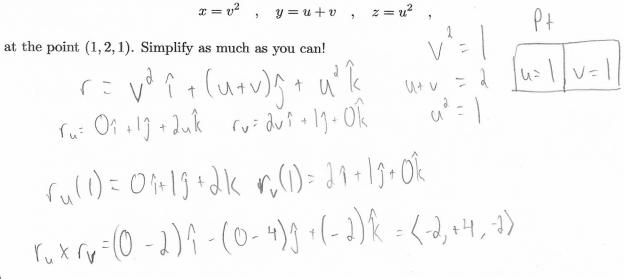
"QUIZ" for Lecture 20

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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



$$\frac{Ans}{-2(x-1)+4(y-2)-2(z-1)=0} = \frac{[x-1)-2(y-2)+(z-1)=0}{[x-1)-2(y-2)+(z-1)=0}$$

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).

$$Z = 2 - x - y \qquad dS = \int 1 + (-1)^{2} + (-1)^{2} dA$$

$$= \int 3$$

$$\int (2 - x - y) \int 3 dA \qquad 0 \le x d$$

$$\int \cos x d \qquad 0 \le y d$$

$$= \int 3 \cos x d + \cos x d = \int 3 \cos x dx dy = \int 3 \cos x dx dy = \int 3 \cos x dx dx dx = \int 3 \cos x d$$