"QUIZ" for Lecture 20

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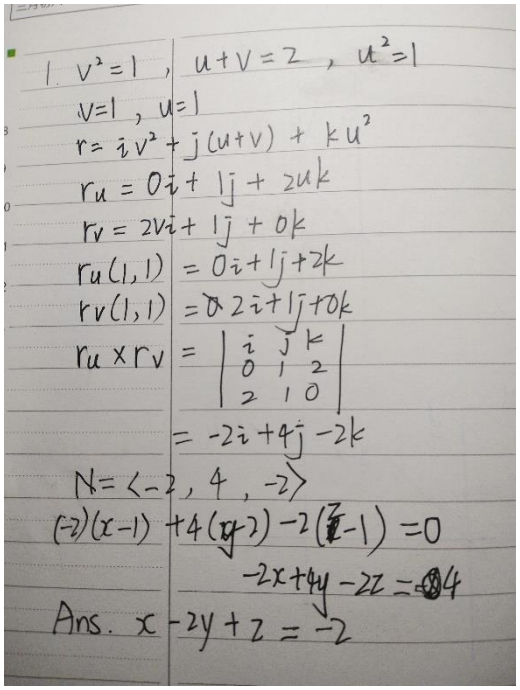
E-MAIL SCANNED .pdf OF COMPLETED QUIZ to DrZcalc3@gmail.com (Attachment: q20FirstLast.pdf) ASAP BUT NO LATER THAN Nov. 16, 8:00pm

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

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

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



2. Evaluate the surface integral

$$\iint_S z\,dS,$$

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