

**“QUIZ” for Nov. 19, 2009**

**NAME:** (print!) \_\_\_\_\_ **Section:** \_\_\_\_\_

**E-MAIL ADDRESS:** (print!) \_\_\_\_\_

- 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  $(2, 0, 0)$ ,  $(0, 2, 0)$ ,  $(0, 0, 2)$ .