NAME: (print!) Applica Armstrang Section: 33

E-MAIL SCANNED .pdf OF COMPLETED QUIZ to DrZcalc3@gmail.com (Attachment: q17FirstLast.pdf) ASAP BUT NO LATER THAN Nov. 5, 8:00pm

1. Sketch the vector planar vector field

$$\mathbf{F} = \langle x, y^2 \rangle \quad .$$

Didnit Learn

 $\mathbf{2}$. Find a potential function for the vector field \mathbf{F}

$$F = \langle y \cos(xy), x \cos(xy) \rangle$$

$$\frac{\Delta}{\Delta x} \frac{\partial}{\partial y} = \left((OS(xy) + X - SIN(xy) \cdot y) \right) \quad \forall C \in S(xy)$$

$$P \quad G \quad - \left((OS(xy) + Y - SIN(xy) \cdot X) \right)$$