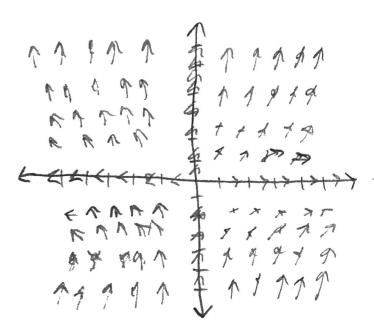
NAME: (print!) Aditya Si Millumar

Section: 24

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

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



2. Find a potential function for the vector field F

= Singx + J(Y)

$$\mathbf{F} = \langle y \cos(xy), x \cos(xy) \rangle \quad .$$

$$F_{2} = \frac{\lambda}{dx} (x(0)xy) = (0xxy - xysin(xy))$$

$$F_{1} = \frac{\lambda}{dy} (y(0)xy = (0)xy - xysin(xy))$$

$$F_{2} = \frac{\lambda}{dy} (y(0)xy + y' = x(0)xy + y' = x(0)xy = y' = 0$$

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