

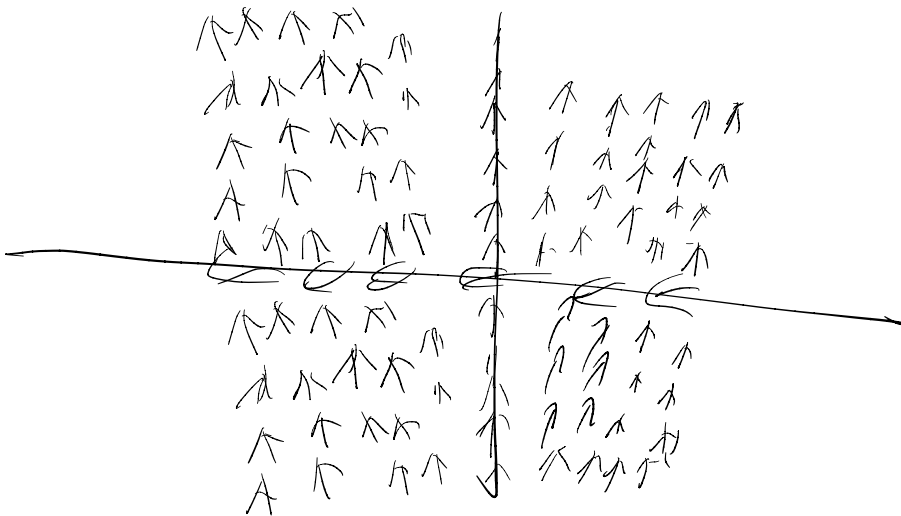
"QUIZ" for Lecture 17

NAME: (print!) Fayed Raza Section: 6

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

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



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

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

$$\langle \cos(xy) - \sin(xy)xy(0), 0, \cos(xy) - \sin(xy)xy + x^2 \cos(xy) =$$

$$f(x, y, z) = \cos(xy) - \sin(xy)xy + x^2 \cos(xy)$$