

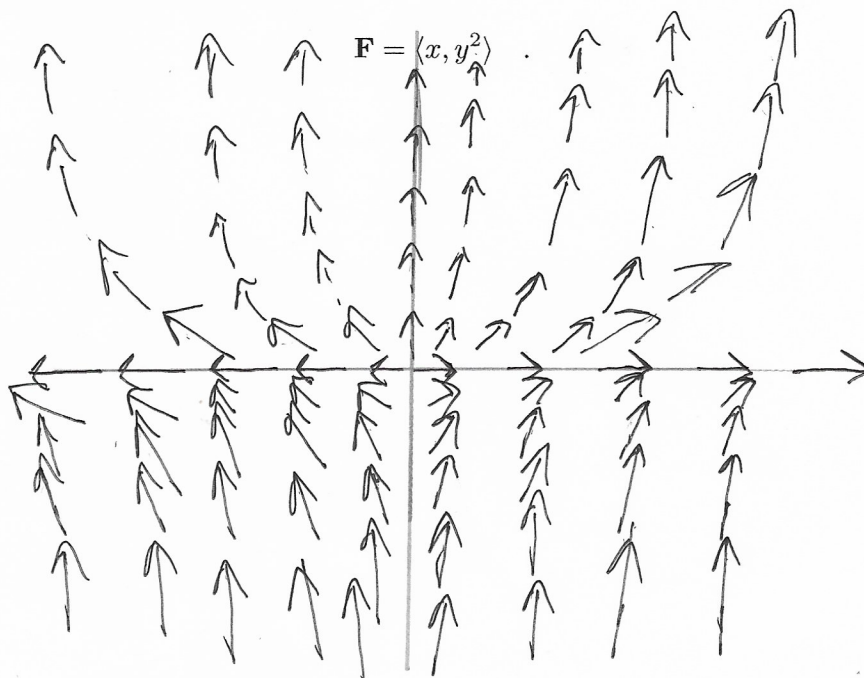
"QUIZ" for Lecture 17

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Section: 2d

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



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

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

$$f(x, y) = \int y \cos(xy) dx = \sin(xy) + C$$

$$f_y = x \cos(xy) \checkmark \Rightarrow C = 0$$

$$f(x, y) = \sin(xy)$$