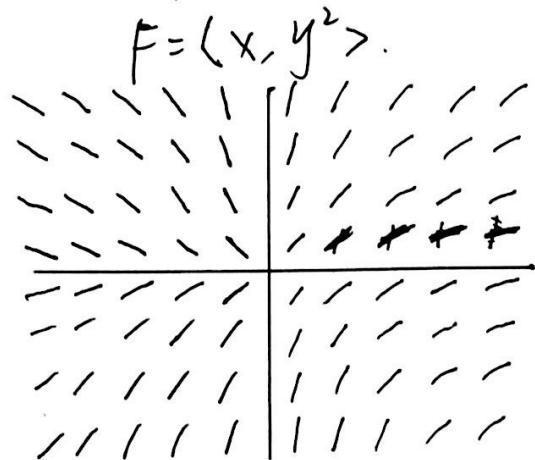


# Quiz for lecture 17.

NAME: Jiahe Li.

Section: 8:40 A.M - 10:00 A.M.

1. Sketch the vector planar vector field.



2. Find a potential function for the vector field  $F$ .

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

$$f = \int y \cos(xy) dx = \sin(xy) + g(y)$$

$$\int x \cos(xy) dy = \sin(xy)$$

$\therefore$  The potential function is  $\sin(xy)$ .



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