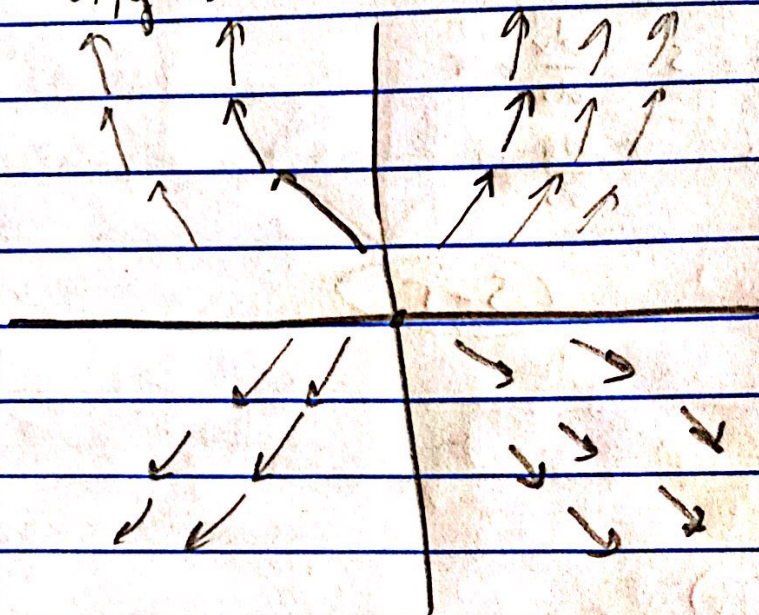


11/4/20

# Lecture 17 Quiz

1)  $F = \langle x, y^2 \rangle$



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

$$F = \nabla \phi$$

$$\frac{d\phi}{dx} = F_1$$

$$\frac{d\phi}{dy} = F_2$$

$$\frac{d\phi}{dx} = y \cos xy$$

$$x \cos xy = \frac{d\phi}{dy}$$

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