



$\vec{E}$  is perpendicular to equipotentials and points "downhill"

$$\vec{E}_y = -\frac{\partial V}{\partial y} = -\frac{\Delta V}{\Delta y}$$
$$= -\frac{(-200V - 600V)}{0.02m}$$

$$\vec{E}_y = \underline{\underline{40,000 \text{ V/m}}}$$