

Quiz

On each slope field, sketch any three particular solutions and find the corresponding

(a) differential equation

(b) general solution

$$\begin{aligned} \frac{\delta y}{\delta x} &= xy & \frac{\delta y}{\delta x} &= -\frac{y}{x} \\ \frac{\delta y}{\delta x} &= -\frac{x}{y} & \frac{\delta y}{\delta x} &= \frac{x}{y} \\ \frac{\delta y}{\delta x} &= x + y \\ \frac{\delta y}{\delta x} &= \frac{y}{x} \end{aligned}$$

$$\begin{aligned} y &= ke^x - x - 1 \\ y &= ke^{\frac{x^2}{2}} & y &= kx \\ y^2 - x^2 &= k & y &= \frac{k}{x} \\ y^2 + x^2 &= k \end{aligned}$$

