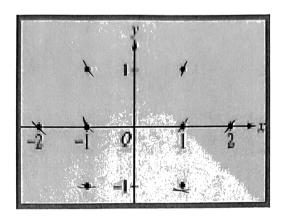
Differential Equation

Given:
$$\frac{dy}{dx} = \frac{1+y}{x}$$
 and $x \neq 0$

a) On the graph provided, sketch a slope field for the given differential equation at the eight points indicated.



b) Find the particular solution y = f(x) to the given differential equation with the initial condition f(-1) = 1. State the domain.

$$\frac{\partial y}{\partial x} = \frac{1+3}{x}$$

$$x\partial y = (1+3)\partial x$$

$$\frac{1}{1+3} = \frac{1}{x}\partial x$$

$$WHAM$$

$$WHAM$$