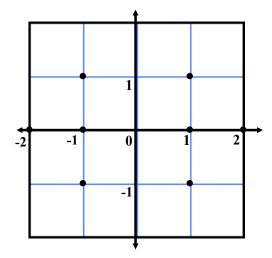
AP Test Question 2006 Part B - No Calculator Allowed

- 5) Consider the differential equation $\frac{dy}{dx} = \frac{1+y}{x}$, where $x \neq 0$.
 - a) On the axes 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 differential equation with the initial condition f(-1) = 1 and state its domain.