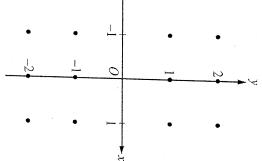
(a) On the axes provided, sketch a slope field for the given differential equation at the twelve points indicated, and for -1 < x < 1, sketch the solution curve that passes through the point (0, -1).

(Note: Use the axes provided in the exam booklet.)



- (b) While the slope field in part (a) is drawn at only twelve points, it is defined at every point in the xy-plane for which $y \neq 0$. Describe all points in the xy-plane, $y \neq 0$, for which $\frac{dy}{dx} = -1$.
- (c) Find the particular solution y = f(x) to the given differential equation with the initial condition f(0) = -2.