

HOMEWORK 1-PART B

- Draw Direction field of $dx + \frac{x}{y}dy = 0$. (Pick one method you like.)
 - Sketch the integral curve from the direction field draw in (a).
 - Solve this ODE.
 - Draw the graph of solutions in (c) and compare with (b).
- Solve the initial value problem $y' + \sin t e^y = 0$, $y(1) = 0$.
- Solve the initial value problem $y' = \frac{e^y}{x+1}$, $y(1) = 0$.