



$$\text{DE: } \frac{dy}{dx} = y - 1$$

- On the $0 \leq x \leq 4$, $-1 \leq y \leq 3$ unit coordinate grid points shown, draw the slope field for this DE.
- Give a rough guess sketch of the two solution curves with initial data $y(4) = 3$ and $y(4) = -1$.
- Check that $y = 1 + Ce^x$ is a solution of the D.E.
- Find the particular solution for which $y(4) = 3$.