1. Explicitly solve the separable differential equation \( y' = 2te^{-y} \).

2. Implicitly solve the separable differential equation \( \frac{dy}{dx} = \frac{y^2 \cos x}{2y^3 - 1} \).
3. Explicitly solve the separable initial value problem $y' = ty^2$ with $y(1) = 3$.

4. Explicitly solve the separable initial value problem $y' = (2t - 1)(y - 1)$ with $y(0) = -2$. 