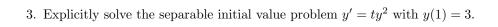
1. Explicitly solve the separable differential equation $y'=2te^{-y}$.

2. Implicitly solve the separable differential equation $\frac{dy}{dx} = \frac{y^2 \cos x}{2y^3 - 1}$.



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