## MATH 246 Groupwork 1.3

Name:

1. Explicitly solve the separable differential equation $y^{\prime}=2 t e^{-y}$.
2. Implicitly solve the separable differential equation $\frac{d y}{d x}=\frac{y^{2} \cos x}{2 y^{3}-1}$.
3. Explicitly solve the separable initial value problem $y^{\prime}=t y^{2}$ with $y(1)=3$.
4. Explicitly solve the separable initial value problem $y^{\prime}=(2 t-1)(y-1)$ with $y(0)=-2$.
