

M20580 L.A. and D.E. Tutorial
Quiz 9

1. Find an integrating factor for the following differential equation (**Note**, you DON'T need to solve it!)

$$y' = t^3 - 2ty$$

2. **Solve** the differential equation $y' = y^2 e^t$ subject to the initial condition $y(1) = \frac{1}{e}$.