Math 274 Quiz 2   **Name:** _____

Sections: 2.2,2.3   Point values in ⬚boxes⬚.
16 May 2018

1. ⬚5⬚ Find an implicit general solution to

$$\frac{dy}{dx} = \frac{2xe^y}{y}.$$

2. ⬚4⬚ Find a general solution to

$$x' = 2x + 5e^t.$$

3. ⬚1⬚ On what interval does

$$y' - \frac{y}{3+t} = e^{t^{2018}}, \qquad y(0) = 5$$

have a unique solution?