Quiz # 1- Math 2233, Differential Equations - Sept. 8, 2014
1. (5 pts) Find the general solution to

$$\frac{dy}{dx} = \frac{e^{-x} - e^x}{3 + 4y}$$

2. (5 pts) Determine an interval in which the solution is certain to exist:

$$\begin{cases} (t-4)y' + ty = 2\ln t \\ y(3) = 2 \end{cases}$$