

**Quiz # 2**– Math 2233, Differential Equations – Sept. 24, 2014

1. (5 pts) Find the general solution to

$$(9x^2 + y - 1) - (4y - x)y' = 0$$

2. (5 pts) Solve the following initial value problem:

$$\begin{cases} y'' + 4y' + 3y = 0, \\ y(0) = 2, \quad y'(0) = -1 \end{cases}$$