# Math 205, Differential Equations 

## Quiz 2

1. Find the general solution for the following differential equation:

$$
x \frac{d y}{d x}+(3 x+1) y=e^{-3 x}
$$

2. Solve the following differential equation.

$$
x \frac{d y}{d x}+y=\frac{1}{y^{2}}
$$

