## MA 262 - Quiz 2 (Lessons 3-5)

1. Find the general solution to the equation

$$
\frac{\mathrm{d} y}{\mathrm{~d} x}=y+x e^{x}
$$

2. Determine whether the equation

$$
\left(3 x^{2} y-e^{x y}\right) \mathrm{d} x+\left(x^{3}-e^{x y}\right) \mathrm{d} y=0
$$

is exact, and if it is, solve it.

