ALGONQUIN COLLEGE

Section:_____Name:_____

Lab 3 - Linear First Order Differential Equations

1. Given the differential equation $y'\sqrt{x} + \frac{1}{2}y = e^{\sqrt{x}}$

a. Find the general solution of the differential equation.

b. Find the particular solution of the differential equation which satisfies the boundary condition $x = 1$ when $y = 3$.