Math 307 Quiz 1

September 26, 2014

Problem 1. Find a solution to the following initial value problem

$$(1/t)y' = ye^t, \quad y(0) = 1.$$

Problem 2. Find a solution to the following initial value problem

$$y' = x\cos^2(y/x) + y/x, \quad y(1) = 0.$$