Name:_____ ID_____   Section_____   Marks: 8

Q1. A city had a population of 20,000 in 1970 and a population of 30,000 in 1980. Assume that its population will continue to grow exponentially at a constant rate. What population can we expect of this city in the year 1990?

Q2. Solve the initial value problem $y' + y\cot x = \cos x, \ y(0) = 1$