(1) (5 points) A certain city had a population of 20.000 in 1980 and a population of 25.000 in 1990. Assume that its population will continue to grow exponentially at a constant rate. What population can its city planners can expect in year 2000? (Do not simplify your answer!)
(2) (5 points) Find a general solution of the differential equation, $y^{\prime}+3 y=2 x e^{-3 x}$.

