# MATH 3630 - Actuarial Mathematics I <br> Fall 2016 - Valdez <br> Quiz No. 1 

Wednesday, 8 September 2016

Name: $\qquad$ Student ID:

Suppose you are given the following survival function of a newborn:

$$
S_{0}(x)=1-\left(\frac{x}{100}\right)^{2}, \text { for } 0 \leq x \leq 100
$$

Calculate the probability that a 20 -year-old will survive to reach age 50 .

