

MATH 3631 - Actuarial Mathematics II
Spring 2020 - Valdez
Quiz No. 5
Monday, 30 March 2020

Name: _____ Student ID: _____

You are given:

- The probability that (x) survives the following year is 0.97.
- The probability that (y) survives the following year is 0.90.
- The two lives (x) and (y) have independent future lifetimes.
- Deaths are uniformly distributed over each year of age.

Calculate ${}_{0.5}q_{\overline{xy}}$.