

MATH 3631 - Actuarial Mathematics II
Spring 2018 - Valdez
Quiz No. 8
Wednesday, 25 April 2018

Name: _____ Student ID: _____

You are given:

- Female mortality follows DeMoivre's law with $\omega = 100$.
- Male mortality assumes a constant force with $\mu = 0.08$.
- The future lifetimes of females and males are independent.

Calculate the probability that a male age 65 outlives a female of the same age.