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

Name: EMIL	Student ID: _	Suggest	d Solution
You are given:		-t	1 4 ((1) - 30)
You are given:  • Female mortality follows DeMoivre's	law with $\omega = 100$ .	165 ~	de Moivres (co 25)
Male mortality assumes a constant for	orce with $\mu = 0.08$ .	Tos ~	exponential ( $\mu = .08$ )
• The future lifetimes of females and m	nales are independent.		be memory with

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

