

MATH 3630 - Actuarial Mathematics I
Fall 2016 - Valdez
Quiz No. 6
Monday, 7 November 2016

Name: _____ Student ID: _____

A whole life annuity-due with annual payments of \$1 is issued to a person age 97. You are given:

- $i = 3\%$, and
- the following extract from a mortality table:

age x	97	98	99	100
ℓ_x	100	80	50	0

Let Y be the present value random variable for this whole life annuity-due.

Calculate $\text{Var}[Y]$.