

MATH 3630 - Actuarial Mathematics I
Fall 2009 - Valdez
Homework No. 4
due Monday, 6:50 PM, 16 November 2009

Please return this page with your signature. Please write your name and student number at the spaces provided:

Name: _____ Student ID: _____

I certify that this is my own work, and that I have not copied the work of another student.

Signature: _____ Date: _____

A special whole life annuity-immediate is issued to age 35 with the following decreasing scale of benefit payments:

age	payments
35-45	20
45-60	15
60 & later	10

Assume the benefits are payable annually and that:

- mortality follows the Illustrative Life Table; and
- $i = 6\%$.

Calculate the actuarial present value of these annuity payments. (Your answer must be a number!)