STAT 575

Practice Problems for Exam 3 (not to be turned in)

2 Problems.

The numbers refers to Cunningham et.al, if not specified otherwise. Some problems may have additional parts.

- 1. p158, 5-20
- 2. Let Z be the present value random variable for a whole life insurance of b payable at the moment of death.

You are given:

- (i) $\delta = 0.04$
- (ii) $\mu_{x+t} = 0.02, t \ge 0$
- (iii) The APV of this insurance policy is equal to Var(Z).

Calculate b and circle the answer below.

- (A) 2.75
- (B) 3.00
- (C) 3.25
- (D) 3.50
- (E) 3.75