STAT 575 Homework 10 Problems due Wednesday April 26

3 Problems. Show all work.

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

1. Consider the partial life table:

An 82 year old buys a whole life insurance policy that will pay \$10,000 at the end of his death. Suppose the annual effective interest rate is 5%. Calculate the expected present value (APV) of the life insurance policy.

- 2. p. 156, 5-7 (Hint: Use results of Exercise 5-6)
- 3. p. 158, 5-15. (Hint: Use Equation (5.35) and follow Example 5.7 (a))