## Exercise 4.1

All answers below did not match textbook answers in the 1st edition. I am glad to see they corrected this in the 2nd edition - now they match!
(a) ${ }_{5} E_{35}=v_{5}^{5} p_{35}=(1.06)^{-5} \frac{98485.58}{100000}=0.7359423$
(b) $A_{35: 51}^{1}=A_{35}-{ }_{5} E_{35} A_{40}=0.151375-(0.7359423)(0.188492)=0.01265577$
(c) ${ }_{5 \mid} A_{35}={ }_{5} E_{35} A_{40}=(0.7359423)(0.188492)=0.1387192$
(d) Assuming UDD, $\bar{A}_{35: 57}=\frac{i}{\delta} A_{35: 57}^{1}+{ }_{5} E_{35}=\frac{0.06}{\log (1.06)}(0.01265577)+0.7359423=0.748974$

