## Exercise 5.7

First, we have that

$$\ddot{a}_{x:\overline{10}} = \ddot{a}_x - {}_{10}\ddot{a}_x = 10 - 4 = 6$$

so that

$$\begin{array}{lcl} A_{x:\overline{10}|} & = & 1 - d\ddot{a}_{x:\overline{10}|} \\ & = & 1 - (1 - v) \ddot{a}_{x:\overline{10}|} \\ & = & 1 - (1 - 0.94)(6) = 0.64 \end{array}$$

Finally, we then have

$$A^1_{x:\overline{10}|} = A_{x:\overline{10}|} - {}_{10}E_x = 0.64 - 0.375 = 0.265$$