## Exercise 5.7

First, we have that

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

so that

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

Finally, we then have

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

