Exercise 5.6

The standard deviation is given by

$$
\begin{aligned}
\text{SD} &= 50000 \times \frac{1}{d} \times \sqrt{{}^{2}A_{[60]} - \left(A_{[60]}\right)^{2}} \\
&= 50000 \times \frac{1}{.05/1.05} \times \sqrt{0.10781 - (0.28984)^{2}} \\
&= 161,995.6
\end{aligned}
$$