Passion 23.1

$$E[S] = T_S + T_1 + T_2$$

$$= \frac{1}{4} + \frac{1}{4} + \frac{1}{42}$$

$$= \frac{1}{4} + \frac{3}{4} + \frac{1}{3}$$

$$= \frac{1}{3} + \frac{3}{3} + \frac{1}{3}$$

$$\begin{aligned}
& = \left[\begin{bmatrix} S^2 \end{bmatrix} = V_{4R}(S) + E \begin{bmatrix} S \end{bmatrix}^2 \\
& = \frac{1}{4^2} + \frac{1}{4^2} + \frac{1}{4^2} + \frac{1}{4^2} + \frac{1}{4^4} + \frac{1}{4^4} + \frac{1}{4^4} \right]^2 \\
& = \frac{1}{4^2} + \frac{1}{4^2} + \frac{1}{4^2} + \frac{1}{4^2} + \frac{1}{4^4} + \frac{1}{4^4} + \frac{1}{4^4} \right]^2 \\
& = \frac{1}{4^2} + \frac{1}{4^2} + \frac{1}{4^2} + \frac{256}{9} = \frac{4337}{144} = \boxed{30.12}
\end{aligned}$$

IM NOT SURE ABOUT THIS