initial deposit dollars 25,000 / capital after 4 years dollars 50, 000

$$
\Rightarrow \text { annual interest rate } r=\frac{\ln 2}{4}
$$

$$
\begin{gathered}
P(t)=25,000 e^{r t} \\
P(4)=25,000 e^{4 r}=50,000 \\
e^{4 r}=2 \Rightarrow 4 r=\ln 2
\end{gathered}
$$

