

$$\begin{aligned}
 \ln 3 &= \ln 3 \\
 K &= \frac{\ln 3}{9} \\
 K &= 0.122 \\
 \therefore y &= 50 e^{0.122t} - 1 \\
 y &= 150 e^{0.122t} - 1
 \end{aligned}$$

