$$
\begin{gathered}
3.2 .3 \\
P=\left(\begin{array}{ll}
0,99 & 0,01 \\
0,12 & 0,88
\end{array}\right) \\
P^{3}=\left(\begin{array}{ll}
0,9737 & 0,0263 \\
0,3152 & 0,6848
\end{array}\right)
\end{gathered}
$$

Therefore the probabilty of the 4 th item being defective is 0,6848 , given the first item being defective.

