

$$\begin{array}{r}
 z^2 + z - 6 \\
 \hline
 z - 1 \bigg) \begin{array}{r} z^3 \\ - z^3 + z^2 \\ \hline z^2 - 7z \\ - z^2 + z \\ \hline - 6z + 6 \\ 6z - 6 \\ \hline 0 \end{array}
 \end{array}$$