$$\begin{array}{r}
x^2 + x - 6 \\
x - 1 \overline{)\ x^3 \qquad\quad - 7x + 6} \\
\underline{-x^3 + x^2} \\
x^2 - 7x \\
\underline{-x^2 + x} \\
-6x + 6 \\
\underline{6x - 6} \\
0
\end{array}$$