$$
\begin{array}{r}
x-2 \\
x^3+2x^2-x-2\,\overline{)\,x^4 \qquad\qquad\qquad\qquad\qquad\qquad -2} \\
\underline{-x^4-2x^3+x^2+2x} \\
-2x^3+x^2+2x-2 \\
\underline{2x^3+4x^2-2x-4} \\
5x^2\qquad\qquad -6
\end{array}
$$