$$\begin{array}{r}
x+2 \\
x^3+3x^2+7x+5 \overline{\smash{\big)}\ x^4+5x^3+16x^2+26x+22} \\
\underline{x^4+3x^3+7x^2+5x} \\
2x^3+9x^2+21x+22
\end{array}$$