$$
\begin{array}{r}
x+\ 2 \\
x^3+3x^2+7x+5 \overline{\smash{\big)}\ x^4+5x^3+16x^2+26x+22} \\
\underline{x^4+3x^3+\ 7x^2+\ 5x} \qquad \longleftarrow\ x(x^3+3x^2+7x+5) \\
2x^3+\ 9x^2+21x+22 \\
\underline{2x^3+\ 6x^2+14x+10} \qquad \longleftarrow\ 2(x^3+3x^2+7x+5) \\
3x^2+\ 7x+12
\end{array}
$$