

$$\begin{array}{r}
P(X) \rightarrow X^5 + X^4 + X^2 + 1 \overline{) X^9 + X^8 + X^6 + X^4 + X^2 + X} \leftarrow Q(X) \\
\underline{X^{14} \phantom{+ X^{13}} + X^{12} \phantom{+ X^{11}} + X^8 + X^7 + X^5} \leftarrow X^5 D(X) \\
X^{14} + X^{13} + \phantom{X^{12}} + X^{11} + \phantom{X^{10}} + X^9 \\
\underline{\phantom{X^{14}} + X^{13} + X^{12} + X^{11} + \phantom{X^{10}} + X^9 + X^8} \\
\phantom{X^{14}} + \phantom{X^{13}} + X^{12} + \phantom{X^{11}} + X^{10} + + X^8 \\
\underline{\phantom{X^{14}} + \phantom{X^{13}} + X^{11} + X^{10} + X^9 + + X^7} \\
\phantom{X^{14}} + \phantom{X^{13}} + X^{11} + X^{10} + + X^8 + + X^6 \\
\underline{\phantom{X^{14}} + \phantom{X^{13}} + \phantom{X^{11}} + X^9 + X^8 + X^7 + X^6 + X^5} \\
\phantom{X^{14}} + \phantom{X^{13}} + X^9 + X^8 + + X^6 + + X^4 \\
\underline{\phantom{X^{14}} + \phantom{X^{13}} + + X^7 + + X^5 + X^4} \\
\phantom{X^{14}} + \phantom{X^{13}} + X^7 + X^6 + + X^4 + + X^2 \\
\underline{\phantom{X^{14}} + \phantom{X^{13}} + + X^6 + X^5 + + X^2} \\
\phantom{X^{14}} + \phantom{X^{13}} + + X^6 + X^5 + + X^3 + X \\
\underline{\phantom{X^{14}} + \phantom{X^{13}} + + + X^3 + X^2 + X} \leftarrow R(X)
\end{array}$$

Figure 6.5 Example of Polynomial Division