$$
\begin{array}{r}
x + 4 \\
x^3 + 5x^2 + 8x + 4 \enclose{longdiv}{x^4 + 9x^3 + 31x^2 + 49x + 27} \\
\underline{x^4 + 5x^3 + 8x^2 + 4x} \\
4x^3 + 23x^2 + 45x + 27 \\
\underline{4x^3 + 20x^2 + 32x + 16} \\
3x^2 + 13x + 11
\end{array}
$$