$$
\begin{array}{r}
x - 3 \quad R\ 9x + 4 \\
x^2 + 3x + 1 \overline{\big)\, x^3 + 0x^2 + x + 1} \\
\underline{x^3 + 3x^2 + x \phantom{{}+1}} \\
-3x^2 + 0x + 1 \\
\underline{-3x^2 - 9x - 3} \\
9x + 4
\end{array}
$$