

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