

$$\begin{array}{r}
 \underline{5x^4 - 4x^3 + 2x^2 + 0x + 1} \mid \underline{x^2 + x + 1} \\
 \underline{5x^4 + 5x^3 + 5x^2} \qquad \underbrace{5x^2 - 9x + 6} \\
 \quad \underline{-9x^3 - 3x^2 + 1} \\
 \quad \quad \underline{-9x^3 - 9x^2 - 9x} \\
 \quad \quad \quad \underline{6x^2 + 9x + 1} \\
 \quad \quad \quad \quad \underline{6x^2 + 6x + 6} \\
 \quad \quad \quad \quad \quad 3x - 5
 \end{array}$$

