

$$\begin{array}{r}
 x^2 + 2x + 5 \\
 \hline
 x + 1 \overline{) x^3 + 3x^2 + 7x + 5} \\
 \phantom{x + 1 \overline{) }} x^3 + x^2 \\
 \phantom{x + 1 \overline{) }} \hline
 \phantom{x + 1 \overline{) }} 2x^2 + 7x + 5 \\
 \phantom{x + 1 \overline{) }} 2x^2 + 2x \\
 \phantom{x + 1 \overline{) }} \hline
 \phantom{x + 1 \overline{) }} 5x + 5 \\
 \phantom{x + 1 \overline{) }} 5x + 5 \\
 \phantom{x + 1 \overline{) }} \hline
 \phantom{x + 1 \overline{) }} 0
 \end{array}
 \begin{array}{l}
 \leftarrow x^2(x + 1) \\
 \leftarrow 2x(x + 1) \\
 \leftarrow 5(x + 1)
 \end{array}$$