

$$\begin{array}{rcl}
 & x^2 + 2x + 5 & \\
 x + 1 \overline{) \begin{array}{l} x^3 + 3x^2 + 7x + 5 \\ x^3 + + + \end{array} } & \longleftarrow x^2(x + 1) & \\
 \hline
 & 2x^2 + 7x + 5 & \\
 & \underline{2x^2 + 2x} & \longleftarrow 2x(x + 1) \\
 & 5x + 5 & \\
 & \underline{5x + 5} & \longleftarrow 5(x + 1) \\
 & 0 &
 \end{array}$$