

$$\begin{array}{r} & & x^2 + 2x \\ & \hline x - 1) & x^3 & + x^2 & - 1 \\ & - x^3 & + x^2 \\ \hline & & 2x^2 \\ & & - 2x^2 + 2x \\ \hline & & 2x - 1 \end{array}$$