

$$\begin{aligned} & (x^5 + x^2) : (x^3 + x^2) = x^2 - x + 1 \\ & \underline{-(x^5 + x^4)} \\ & \quad -x^4 + x^2 \\ & \quad \underline{-(-x^4 - x^3)} \\ & \quad \quad x^3 + x^2 \\ & \quad \quad \underline{-(x^3 + x^2)} \\ & \quad \quad \quad 0 \end{aligned}$$