

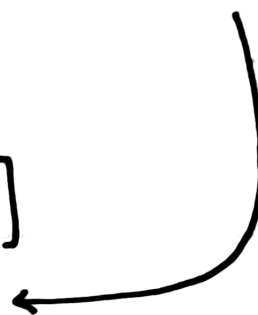
①

$$\begin{array}{r}
 x^2 + (1+d)x + (d^2+d) \\
 \hline
 x-d \mid \begin{array}{r} x^3 + x^2 + 1 \\ - (x^3 - dx^2) \\ \hline (1+d)x^2 \\ - ((1+d)x^2 - (d^2+d)x) \\ \hline (d^2+d)x + 1 \\ - [(d^2+d)x - (d^3+d^2)] \\ \hline 1 - (d^3+d^2) \\ \hline 0 \end{array}
 \end{array}$$

$$d^3 = d^2 + 1$$

↓

$$d^3 + d^2 = 1$$



②

$$\begin{array}{r}
 x + (1+d+d^2) \\
 \hline
 x-d^2 \mid \begin{array}{r} x^2 + (1+d)x + (d^2+d) \\ x^2 - d^2x \\ \hline (1+d+d^2)x \\ (1+d+d^2)x - d^2(1+d+d^2) \\ \hline d^2 + d + d^2 + d^3 + d^4 = 0 \end{array}
 \end{array}$$