d) $y(D) = D^{17} + D^{16} + D^{15} + D^{14} + D^{12} + D^{10} + D^9 + D^8 + D^7 + D^6 + D^2$

↓ Divisibile per $g(D)$

2.4

$D^{15} + D^{11} + D^{10} + D^9 + D^8 + D^7 + D^5 + D^3 + D^2 + D + 1$ | $y(D)$ | $D^2 + D + 1$

$D^{17}\ D^{13}\ D^{12}\ D^{11}\ D^{10}\ D^9\ D^7\ D^5\ D^4\ D^3\ D^2$

$D^{16}\ D^{15}\ D^{14}\ D^{13}\ D^{11}\ D^9\ D^6\ D^5\ D^4\ D^3$

$D^{16}\ D^{12}\ D^{11}\ D^{10}\ D^8\ D^7\ D^6\ D^4\ D^3\ D^2\ D$

$D^{15}\ D^{14}\ D^{13}\ D^{12}\ D^{10}\ D^9\ D^8\ D^2$

$D^{15}\ D^{11}\ D^{10}\ D^9\ D^8\ D^7\ D^5\ D^3\ D^2\ D+1$

$D^{11}\ D^{13}\ D^{12}\ D^{11}\ D^8\ D^7\ D^3 + 1$

Not valid

$\neq 0$

- OPTIMAL RECEIVER (CSK)

$$\max \left[(r, s_i) - \frac{1}{2} \|s_i\|^2 \right]$$

$$\mathrm{Re}\left\{ A \cdot \int_{-\infty}^{+\infty} z(t)\, e^{-j\pi \sum_k a_k \varphi(t - kT)}\, dt \right\}$$

$z(t)$: complex envelope of $r(t)$: $z(t)$