

0)

$$0,1) x^8 = x^4 + x^3 + x + 1$$

$$x^9 = x^5 + x^4 + x^2 + x$$

$$x^{10} = x^6 + x^5 + x^3 + x^2$$

$$x^{11} = x^7 + x^6 + x^4 + x^3$$

$$x^{12} = x^8 + x^4 + x^5 + x^4 = x^4 + x^3 + x + 1 + x^7 + x^5 + x^4 = x^7 + x^5 + x^3 + x + 1$$

$$x^{13} = x^8 + x^6 + x^4 + x^2 + x = x^4 + x^3 + x + 1 + x^6 + x^4 + x^2 + x = x^6 + x^3 + x^2 + 1$$

$$x^{14} = x^7 + x^4 + x^3 + x$$

$$(x^7 + x^6 + x^4 + x^3 + x^2 + 1) \cdot (x^7 + x^5 + x^3 + x^2 + x)$$

$$= x^7 + x^5 + x^3 + x^2 + x + x^8 + x^7 + x^5 + x^4 + x^3 + x^{10} + x^8 + x^6 + x^5 + x^4 + x^{11} + x^9 + x^7 + x^6 + x^5 + x^{13} + x^{11} + x^8 + x^7 + x^6 + x^5 + x^{14} + x^{12} + x^{10} + x^8 + x^8$$

$$= x^2 + x + x^5 + x^4 + x^{10} + x^8 + x^5 + x^6 + x^7 + x^6 + x^{13} + x^7 + x^{14} + x^{12} + x^{10} + x^8$$

$$= x^2 + x + x^{13} + x^{14} + x^{12} + x^8$$

$$= x + x^2 + x^6 + x^3 + x^2 + 1 + x^7 + x^4 + x^3 + x + x^7 + x^5 + x^3 + x + 1 + x^{11} + x^3 + 1$$

$$= x^6 + x^3 + 1 + x^5 + x + 1 + x^3 + x + 1$$

$$= x^6 + x^5 + 1$$