

These are the irreducible polynomials over $GF(2)$ used to represent field elements:

- $x^2 + x + 1$
- $x^3 + x + 1$
- $x^4 + x + 1$
- $x^5 + x^2 + 1$
- $x^6 + x + 1$
- $x^7 + x + 1$
- $x^8 + x^4 + x^3 + x + 1$
- $x^9 + x + 1$
- $x^{10} + x^3 + 1$
- $x^{11} + x^2 + 1$
- $x^{12} + x^3 + 1$
- $x^{13} + x^4 + x^3 + x + 1$
- $x^{14} + x^5 + 1$
- $x^{15} + x + 1$
- $x^{16} + x^5 + x^3 + x + 1$
- $x^{17} + x^3 + 1$
- $x^{18} + x^3 + 1$
- $x^{19} + x^5 + x^2 + x + 1$
- $x^{20} + x^3 + 1$
- $x^{21} + x^2 + 1$
- $x^{22} + x + 1$
- $x^{23} + x^5 + 1$
- $x^{24} + x^4 + x^3 + x + 1$
- $x^{25} + x^3 + 1$
- $x^{26} + x^4 + x^3 + x + 1$
- $x^{27} + x^5 + x^2 + x + 1$
- $x^{28} + x + 1$
- $x^{29} + x^2 + 1$
- $x^{30} + x + 1$
- $x^{31} + x^3 + 1$
- $x^{32} + x^7 + x^3 + x^2 + 1$
- $x^{33} + x^{10} + 1$
- $x^{34} + x^7 + 1$
- $x^{35} + x^2 + 1$
- $x^{36} + x^9 + 1$
- $x^{37} + x^6 + x^4 + x + 1$
- $x^{38} + x^6 + x^5 + x + 1$
- $x^{39} + x^4 + 1$
- $x^{40} + x^5 + x^4 + x^3 + 1$
- $x^{41} + x^3 + 1$
- $x^{42} + x^7 + 1$
- $x^{43} + x^6 + x^4 + x^3 + 1$
- $x^{44} + x^5 + 1$
- $x^{45} + x^4 + x^3 + x + 1$

- $x46 + x + 1$
- $x47 + x5 + 1$
- $x48 + x5 + x3 + x2 + 1$
- $x49 + x9 + 1$
- $x50 + x4 + x3 + x2 + 1$
- $x51 + x6 + x3 + x + 1$
- $x52 + x3 + 1$
- $x53 + x6 + x2 + x + 1$
- $x54 + x9 + 1$
- $x55 + x7 + 1$
- $x56 + x7 + x4 + x2 + 1$
- $x57 + x4 + 1$
- $x58 + x19 + 1$
- $x59 + x7 + x4 + x2 + 1$
- $x60 + x + 1$
- $x61 + x5 + x2 + x + 1$
- $x62 + x29 + 1$
- $x63 + x + 1$
- $x64 + x4 + x3 + x + 1$