

GF(256, [1 + x + x^3 + x^4 + x^8]):

[0]

[1]

[x]

GEN --> [1 + x]

[x^2]

[1 + x^2]

[x + x^2]

[1 + x + x^2]

[x^3]

[1 + x^3]

[x + x^3]

[1 + x + x^3]

[x^2 + x^3]

[1 + x^2 + x^3]

[x + x^2 + x^3]

[1 + x + x^2 + x^3]

[x^4]

[1 + x^4]

[x + x^4]

[1 + x + x^4]

[x^2 + x^4]

[1 + x^2 + x^4]

[x + x^2 + x^4]

[1 + x + x^2 + x^4]

[x^3 + x^4]

[1 + x^3 + x^4]

[x + x^3 + x^4]

[1 + x + x^3 + x^4]

[x^2 + x^3 + x^4]

[1 + x^2 + x^3 + x^4]

[x + x^2 + x^3 + x^4]

[1 + x + x^2 + x^3 + x^4]

[x^5]

[1 + x^5]

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[1 + x + x^2 + x^5]

[x^3 + x^5]

[1 + x^3 + x^5]

[x + x^3 + x^5]

[1 + x + x^3 + x^5]

[x^2 + x^3 + x^5]

[1 + x^2 + x^3 + x^5]

[x + x^2 + x^3 + x^5]

[1 + x + x^2 + x^3 + x^5]

[x^4 + x^5]

[1 + x^4 + x^5]

[x + x^4 + x^5]

[1 + x + x^4 + x^5]

[x^2 + x^4 + x^5]

[1 + x^2 + x^4 + x^5]

[x + x^2 + x^4 + x^5]

[1 + x + x^2 + x^4 + x^5]

$[x^3 + x^4 + x^5]$
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 $[x^2 + x^3 + x^4 + x^5 + x^6]$
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 $[x + x^2 + x^5 + x^7]$
 $[1 + x + x^2 + x^5 + x^7]$
 $[x^3 + x^5 + x^7]$
 $[1 + x^3 + x^5 + x^7]$

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[x + x^3 + x^5 + x^7]
[1 + x + x^3 + x^5 + x^7]
[x^2 + x^3 + x^5 + x^7]
[1 + x^2 + x^3 + x^5 + x^7]
[x + x^2 + x^3 + x^5 + x^7]
[1 + x + x^2 + x^3 + x^5 + x^7]
[x^4 + x^5 + x^7]
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[x + x^2 + x^3 + x^4 + x^5 + x^7]
[1 + x + x^2 + x^3 + x^4 + x^5 + x^7]
[x^6 + x^7]
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[x^2 + x^6 + x^7]
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[1 + x + x^2 + x^3 + x^6 + x^7]
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[1 + x^4 + x^6 + x^7]
[x + x^4 + x^6 + x^7]
[1 + x + x^4 + x^6 + x^7]
[x^2 + x^4 + x^6 + x^7]
[1 + x^2 + x^4 + x^6 + x^7]
[x + x^2 + x^4 + x^6 + x^7]
[1 + x + x^2 + x^4 + x^6 + x^7]
[x^3 + x^4 + x^6 + x^7]
[1 + x^3 + x^4 + x^6 + x^7]
[x + x^3 + x^4 + x^6 + x^7]
[1 + x + x^3 + x^4 + x^6 + x^7]
[x^2 + x^3 + x^4 + x^6 + x^7]
[1 + x^2 + x^3 + x^4 + x^6 + x^7]
[x + x^2 + x^3 + x^4 + x^6 + x^7]
[1 + x + x^2 + x^3 + x^4 + x^6 + x^7]
[x^5 + x^6 + x^7]
[1 + x^5 + x^6 + x^7]
[x + x^5 + x^6 + x^7]

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[1 + x + x^5 + x^6 + x^7]
[x^2 + x^5 + x^6 + x^7]
[1 + x^2 + x^5 + x^6 + x^7]
[x + x^2 + x^5 + x^6 + x^7]
[1 + x + x^2 + x^5 + x^6 + x^7]
[x^3 + x^5 + x^6 + x^7]
[1 + x^3 + x^5 + x^6 + x^7]
[x + x^3 + x^5 + x^6 + x^7]
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[x^2 + x^3 + x^5 + x^6 + x^7]
[1 + x^2 + x^3 + x^5 + x^6 + x^7]
[x + x^2 + x^3 + x^5 + x^6 + x^7]
[1 + x + x^2 + x^3 + x^5 + x^6 + x^7]
[x^4 + x^5 + x^6 + x^7]
[1 + x^4 + x^5 + x^6 + x^7]
[x + x^4 + x^5 + x^6 + x^7]
[1 + x + x^4 + x^5 + x^6 + x^7]
[x^2 + x^4 + x^5 + x^6 + x^7]
[1 + x^2 + x^4 + x^5 + x^6 + x^7]
[x + x^2 + x^4 + x^5 + x^6 + x^7]
[1 + x + x^2 + x^4 + x^5 + x^6 + x^7]
[x^3 + x^4 + x^5 + x^6 + x^7]
[1 + x^3 + x^4 + x^5 + x^6 + x^7]
[x + x^3 + x^4 + x^5 + x^6 + x^7]
[1 + x + x^3 + x^4 + x^5 + x^6 + x^7]
[x^2 + x^3 + x^4 + x^5 + x^6 + x^7]
[1 + x^2 + x^3 + x^4 + x^5 + x^6 + x^7]
[x + x^2 + x^3 + x^4 + x^5 + x^6 + x^7]
[1 + x + x^2 + x^3 + x^4 + x^5 + x^6 + x^7]

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$$[1 + x + x^4 + x^6] + [x + x^3 + x^6 + x^7] = [1 + x^3 + x^4 + x^7]$$

$$[1 + x + x^4 + x^6] - [x + x^3 + x^6 + x^7] = [1 + x^3 + x^4 + x^7]$$

$$[1 + x + x^4 + x^6] * [x + x^3 + x^6 + x^7] = [1]$$

$$[1 + x + x^4 + x^6] / [x + x^3 + x^6 + x^7] = [1 + x^2 + x^4 + x^5 + x^7]$$

$$[1 + x + x^4 + x^6] \% [x + x^3 + x^6 + x^7] = [0]$$

$$[1 + x + x^4 + x^6] ^ [3] = [1 + x + x^6 + x^7]$$

GF(7, [x]):

[0]

[1]

[2]

GEN --> [3]

[4]

[5]

[6]

$\text{GF}(27, [1 + 2x + x^3]):$

[0]

[1]

[2]

GEN --> [x]

[1 + x]

[2 + x]

[2x]

[1 + 2x]

[2 + 2x]

[x^2]

[1 + x^2]

[2 + x^2]

[x + x^2]

[1 + x + x^2]

[2 + x + x^2]

[2x + x^2]

[1 + 2x + x^2]

[2 + 2x + x^2]

[2x^2]

[1 + 2x^2]

[2 + 2x^2]

[x + 2x^2]

[1 + x + 2x^2]

[2 + x + 2x^2]

[2x + 2x^2]

[1 + 2x + 2x^2]

[2 + 2x + 2x^2]