

**Multiplication table for field  $Z_2[x]/(x^3 + x + 1)$**

	0	1	$\alpha$	$1 + \alpha$	$\alpha^2$	$1 + \alpha^2$	$\alpha + \alpha^2$	$1 + \alpha + \alpha^2$
0	0	0	0	0	0	0	0	0
1	0	1	$\alpha$	$1 + \alpha$	$\alpha^2$	$1 + \alpha^2$	$\alpha + \alpha^2$	$1 + \alpha + \alpha^2$
$\alpha$	0	$\alpha$	$\alpha^2$	$\alpha + \alpha^2$	$1 + \alpha$	1	$1 + \alpha + \alpha^2$	$1 + \alpha^2$
$1 + \alpha$	0	$1 + \alpha$	$\alpha + \alpha^2$	$1 + \alpha^2$	$1 + \alpha + \alpha^2$	$\alpha^2$	1	$\alpha$
$\alpha^2$	0	$\alpha^2$	$1 + \alpha$	$1 + \alpha + \alpha^2$	$\alpha + \alpha^2$	$\alpha$	$1 + \alpha^2$	1
$1 + \alpha^2$	0	$1 + \alpha^2$	1	$\alpha^2$	$\alpha$	$1 + \alpha + \alpha^2$	$1 + \alpha$	$\alpha + \alpha^2$
$\alpha + \alpha^2$	0	$\alpha + \alpha^2$	$1 + \alpha + \alpha^2$	1	$1 + \alpha^2$	$1 + \alpha$	$\alpha$	$\alpha^2$
$1 + \alpha + \alpha^2$	0	$1 + \alpha + \alpha^2$	$1 + \alpha^2$	$\alpha$	1	$\alpha + \alpha^2$	$\alpha^2$	$1 + \alpha$

**Multiplication table for field  $Z_2[x]/(x^3 + x + 1)$**

	0	1	$\alpha$	$1 + \alpha$	$\alpha^2$	$1 + \alpha^2$	$\alpha + \alpha^2$	$1 + \alpha + \alpha^2$
0	0	0	0	0	0	0	0	0
1	0	1	$\alpha$	$1 + \alpha$	$\alpha^2$	$1 + \alpha^2$	$\alpha + \alpha^2$	$1 + \alpha + \alpha^2$
$\alpha$	0	$\alpha$	$\alpha^2$	$\alpha + \alpha^2$	$1 + \alpha$	1	$1 + \alpha + \alpha^2$	$1 + \alpha^2$
$1 + \alpha$	0	$1 + \alpha$	$\alpha + \alpha^2$	$1 + \alpha^2$	$1 + \alpha + \alpha^2$	$\alpha^2$	1	$\alpha$
$\alpha^2$	0	$\alpha^2$	$1 + \alpha$	$1 + \alpha + \alpha^2$	$\alpha + \alpha^2$	$\alpha$	$1 + \alpha^2$	1
$1 + \alpha^2$	0	$1 + \alpha^2$	1	$\alpha^2$	$\alpha$	$1 + \alpha + \alpha^2$	$1 + \alpha$	$\alpha + \alpha^2$
$\alpha + \alpha^2$	0	$\alpha + \alpha^2$	$1 + \alpha + \alpha^2$	1	$1 + \alpha^2$	$1 + \alpha$	$\alpha$	$\alpha^2$
$1 + \alpha + \alpha^2$	0	$1 + \alpha + \alpha^2$	$1 + \alpha^2$	$\alpha$	1	$\alpha + \alpha^2$	$\alpha^2$	$1 + \alpha$