Supplemental material for Math 8510, HW 11

#1: The additive Cayley table of the finite field $\mathbb{F}_9 \cong \mathbb{F}_3[x]/(x^2 + x + 2)$.

$+$	0	1	2	x	$x{+}1$	$x{+}2$	$2x$	$2x{+}1$	$2x{+}2$
0									
1									
2									
x									
$x{+}1$									
$x{+}2$									
$2x$									
$2x{+}1$									
$2x{+}2$									

#1: The multiplictive Cayley table of the finite field $\mathbb{F}_9 \cong \mathbb{F}_3[x]/(x^2 + x + 2)$.

$\times$	1	2	x	$x{+}1$	$x{+}2$	$2x$	$2x{+}1$	$2x{+}2$
1								
2								
x								
$x{+}1$								
$x{+}2$								
$2x$								
$2x{+}1$								
$2x{+}2$								

#1: The additive Cayley table of the finite field $\mathbb{F}_9 \cong \mathbb{F}_3[x]/(x^2 + x + 2)$.

$+$	0	1	-1	x	$x+1$	$x-1$	$-x$	$-x+1$	$-x-1$
0									
1									
-1									
x									
$x+1$									
$x-1$									
$-x$									
$-x+1$									
$-x-1$									

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$\times$	1	-1	x	$x+1$	$x-1$	$-x$	$-x+1$	$-x-1$
1								
-1								
x								
$x+1$								
$x-1$								
$-x$								
$-x+1$								
$-x-1$								