	ELE YOY - HWY
	in GF(13):
	$(4)(2)^{4} + 3x^{3} + x^{2} + 10) - (9x^{7} + 6x^{2} + 7x^{2} + 8x + 2)$
	$= 1/x^{4} - 3x^{3} + 7x^{2} - 8x + 8$ $= 1/x^{4} + 10x^{2} + 7x^{2} + 8x + 8$
	(b) (7x3+2x+9)x(2x3+x2+8x+7)
	= 14x6 + 4x4 + 18x3 + 7x5 + 2x3 + 9x2 + 50x + 16x2 +72x +79x2+14x +63
	$= x^{6} + 4x^{4} + 5x^{3} + 7x^{5} + 2x^{3} + 9x^{2} + 4x^{4} + 3x^{2} + 7x + 10x^{3} + x + 11$
	$= x^{6} + 7x^{5} + 8x^{4} + 4x^{3} + 12x^{2} + 8x + 11$
	(c) $3x^3 + 4x^2 + 3$) $12x^5 + 4x^4 + 36x^3 + 12x^2 + x$
	$-12x^{5} + 3x^{4} + 12x^{2}$
	$\frac{12}{3} \rightarrow 12.9 \rightarrow 108 \mod 13$ $\chi^{+} + 36 \chi^{3} + \chi$
	$\frac{12}{3} \rightarrow 12.9 \rightarrow 108 \text{ mod } 13$ $\begin{array}{c} \chi^{4} + 36 \chi^{3} + \chi \\ \chi^{4} + 10 \chi^{3} + \chi \\ \chi^{5} + 10 \chi^{3} + \chi \end{array}$
	- x' + 10 x3 + x=
	$9 \qquad \boxed{4x^2 + 9x}$
	/ 4x - 2 + 4x
4	22
	In GF(23) w/ mod golynomsal: x3+x+1
	2. (a) $(x^2 + x + 1) \cdot (x + 1)$
	$= x^3 + x^2 + x + x^2 + x + 1$
	$= x^{3} + 2x^{2} + 2x + 1 \qquad \text{mod} x^{3} + x + 1$
	$\Rightarrow x^3 + x + 1) x^2 + 2x^2 + 2x + 1$
	$-x^3+x+1$
-	$7x^2+x \rightarrow 7x$
	$(b) (x+1) - (x^2 + x+1)$
	$= -x^2 \qquad \text{mod } x^3 + x + 1$
	$=\chi^2$
	$\frac{2^{2}+1}{2}$
	$=\frac{1+\frac{x}{x^2+1}}{x^2+1}$
	2,41