	A ,	
1	(a) construct P(x) mod 5 of degree 42 (1	b) Suppose Co=0, set-up system of linear
	(a) construct $P(x)$ mod 5 of degree 42 (b) such that $P(0)=1$, $P(1)=1$, $P(2)=4$	equations to find Q(x) and E(x)
	$(x-1)(x-2)$ x^2-3x+2	
Z(3)=1	$\Delta_{\theta}(x) = \frac{(x-1)(x-2)}{(0-1)(0-2)} = \frac{x^2-3x+2}{+2} = 3(x^2-3x+2)$	Q(x) = P(x)E(x) = (x E(x)) 1 received
(mod 5)		Message Jacks value
4(-1)=1	$\Delta_1(x) = \frac{\chi(\chi-2)}{1(1-2)} = \frac{\chi^2-2\chi}{-1} = 4(\chi^2-2\chi)$	polynomial locator every
4(-1)= ((Mod ?)		berthouset 3
	$\Delta_2(x) = \frac{\chi(x-1)}{2(2-1)} = \frac{\chi^2 - \chi}{2} = 3(\chi^2 + \chi)$	F(x)= x-bo
		(2(x)=a3x3+a2x2+q,x+q0
	$P(x) = I(\Delta_o(x)) + I(\Delta_1(x)) + A(\Delta_2(x))$	∀x 0€x€4: received
	(n) 2 (v) (n) (s)	1 4x 0 2 x 2 4:
	1/x2+ X+ 11 (mod 5)	93(0)+92(0)+9,(0)+90= 6.(0-b0)
	P(3)=0 P(4)=4	Q(0) = (0.E(0)
		< 03+92+91+90=1.(1-50)
	(c) Suppose Q(x)=4x3+x2+x and E(x)=x; show how to recover original msg from Q,E	893+492+29,+90=4(2-bc)
	Q(x) = E(x) P(x)	2793+9a2+39,+00=0(3-60)
		(4a3+16a2+4a,+a=4(4-60)
	$b(x) = \frac{\lambda}{\pi \lambda_3 + \lambda_5 \lambda} = \boxed{\lambda_5 + \lambda_7 + 1}$	7 - 1 1 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2
[2]	(a) Will group discover secret if I	(15) Repeat part (a) except now, there are
	(a) Will group discover secret if I individuals lie amongst (k+1) representatives?	only 1/2 representatives in opposition.
	K+1 packets sent, I corruptions occur	k+l packets sent, 2 consuptions occur
	Coll wide to a today	we need a min. of 1/2 representative sto
	no Berlekamp Welch does not work	Yes, can recover secret
	here; would have to brute-force	via Berlekamp-Welch
	of a representatives to find	
	secret	agree for us to decade the secret

if I expect k corruptions, I should

send an extra 21c packets to recover