12+il=12-11 22a+bi (a2+ (b+1)2= J(a-1)2+b2 - at + 25 + 25 \$ 2 at - 2at + pt (a2-b) = 2 2 3 1: 2 a-bi - (a2+b221) ----

Ja p(x) 2(x-a)2q(x) 9 5/6=6 p(x)=2(x-a)q(x)+(x-a)2/4 (x) # 2/3 p(a)=0 = (x-a) [29(n)+9'(x)] طوف دی مرفی نے ج و ج رہنی فران P(x), (x-a) q(x), P'(x), (x-a)2 r(x) L> P'(x): q(x) + (x-a) q(x) = (x-a)2 r(x) B(x), B(a) 10 A(x), A(a) 10 9(x) 2 A(x)-B(x)

-> 9(a)2 A(a)- B(x)

1 P(x)2(x-a)2s(x) Cr Cr 19(x) (b) 26/26/26/26

3 (2-a) 3 2015- (3/2+ 1/2) > 2 : which : ENDS Cincori - 122+7 + 5 | 5 | 5 | 5 3+ 7 + 1 | + 11 | -> 1 = 2 + 1 7,3 -012+1123+1 >6 > 123+1 >6

2)
$$(f \pm g(T)) = (f_n \pm g)T_+^2 (f_{n-1} \pm g_{n-1})T_-^{n-1} (f_n + g_n)T_+^2 (f_n \pm g_n)T_+^2 (f_n \pm g_n)T_+^2 (f_n + g_n)T_+^2 (f_n + g_n)T_+^2 (g_n + g_n)T$$

FO-> Zz Cos Otising - Curl uz die modifición = eio)? $\Rightarrow P(x) = \alpha \left(x - e^{i\theta_1} \right) \left(x - e^{i\theta_2} \right) - \left(x - e^{i\theta_n} \right)$ $\frac{(1-c)^{2}}{2\sin^{2}\theta_{1}} = \frac{2\sin\theta_{1}}{2\sin\theta_{2}} = \frac{(1-c)^{2}}{(1-c)^{2}} = \frac{1}{2\sin\theta_{1}}$ $\frac{(1-c)^{2}\theta_{1}}{2\sin\theta_{1}} = \frac{1}{2\sin\theta_{1}}$ $\frac{(1-c)^{2}\theta_{1}}{2\sin\theta_{1}} = \frac{1}{2\sin\theta_{1}}$ $\frac{(1-c)^{2}\theta_{1}}{2\sin\theta_{1}} = \frac{1}{2\sin\theta_{1}}$ $\frac{(1-c)^{2}\theta_{1}}{2\sin\theta_{1}} = \frac{1}{2\sin\theta_{1}}$ + d x 2 sin Di sin Di z sin On x (sin Oi - i Cos Oi) x (sin 02 - icos 02)x $x(\sin\frac{\theta_n}{2} - i\cos\frac{\theta_n}{2})$ - e - i 0 z = x x (-15" x (e= 2 (0,+02+-+0,1))

3 de com : 1 cha 2/10 8 P(-1) 2 x (-1- cos 0, - isin 0,) (-1-cos 0,-isin 0,) - (1-cos 0,-isin) $N = \alpha(-1)^{n} (1+6s\theta_{1}+i\sin\theta_{1})(1+6s\theta_{2}+i\sin\theta_{2}) - (1+\cos\theta_{1}+i\sin\theta_{2})$ $= \alpha 2^{n} \cos^{2}\theta_{1} \cos^{2}\theta_{2} \cos^{2}\theta_{1}$ $= \alpha 2^{n} \cos^{2}\theta_{1} \cos^{2}\theta_{2} \cos^{2}\theta_{2}$ $= \alpha 2^{n} \cos^{2}\theta_{1} \cos^{2}\theta_{2} \cos^{2}\theta_{2} \cos^{2}\theta_{2} \cos^{2}\theta_{2}$ $= \alpha 2^{n} \cos^{2}\theta_{1} \cos^{2}\theta_{2} \cos^{2}\theta_{2} \cos^{2}\theta_{2} \cos^{2}\theta_{2}$ $= \alpha 2^{n} \cos^{2}\theta_{1} \cos^{2}\theta_{2} \cos^{2}\theta$ $\times \left(\cos \frac{\theta^2}{2} + i\sin \frac{\theta^2}{2}\right) \times - \times \left(\cos \frac{\theta^n}{2} + i\sin \frac{\theta^n}{2}\right)$ $e^{i\frac{\theta^n}{2}}$ $C_1 = \alpha' \times e^{\frac{i}{2}(\theta_1 + \theta_2 + \dots + \theta_n)}$ $e^{\frac{i}{2}(\theta_1 + \theta_2 + \dots + \theta_n)}$ ros cos a seige iste ile il in line (the fait) sion f(-1) = = 012 cme in of . 0= (0,+02+ +0n) Low or ce - is of site (2 site (-1) site aire د ک و به دوز حقیقی ادام حیدجدای) است که عدی حقیقی است. 10) & 5 1 2 1 0 1+02+ + Ome ; c po 21 June \$ (-1) in charles former winds La & igent a fort

Cn(ax+b)"+ Cn-1 (ax+b)"+ - + C, (ax+b)+6=0 - 0 Cn a 2 + (Cn k + Cna,) x -1 + (Cn Kno1+Cn-1 kn-101+ -+ Ca) 2 + (Cnkn,0+Cn-1 kn-1,0+-+ Cik1,0+Co) 1=0 Chan so ato sono Cn Knon-1 + Cn-1 an-1 = 0 -> Cn-1 a = 0 -> Cn-1 a = 0 Cnknon + Cn-1 kn-171 + + C19120 2333 30 C19120 - S120 Cnkn,6+Cn-1kn-1,0+-+ Co = 0 C1,2,-,0=0 Co = 0 وهوال مفتری استان می وای می مدد طبعی بوار ایک علموای عرب

المات معود كون عوما でいるのでしいるらばらいいい No21 -> V=1 N,= ax+b - bx00 /, zax V2 = (ax+b)22 a2 x2+ x2,1x+ b2 = - x21 19-638 Cn x+ Cn-1x1-1 + Cx+C. Jusq nes (1 de mo pos P(x)= Cnx+ Cn-12n-1+-+C1x+C. Tul Vo, Vin -, Va die wis La res where my