No.: MATH HI10 LECTURE 3 NOTES. とこりキディー・ディー・ ezewzpzew. f(z=fw) = f(z)fw) (ske w so be: very small => f'(z) = f(z) f'(s) = cf(z) :. f(z) = pnz 2 17 WZ. WZ= WU unif vertor of complex w Let u = coro + 15mo. uz = u (afbi) 2 (cosofisino) (afbi) z (acoso - bsino) + (boso + asino); rotation of & antidockwise sho cose 6 Chebyslen polynomial (05 n p = 7, (650) i.c. 13(x) = 4x3-3x

expresses cosno in the form of coso.

PPP bazic

1/26/5 (hearpm P(26)=0 (2) P(2)= Q(2)(2-26).

By pahnonial division,  $P(Z) = (z-Z_6)Q(Z) + R(Z)$ . Leg R < |z| = R is constant. Substitute  $z = Z_6$ .  $P(Z_6) = P(Z_6) = C(Z_6) = C(Z_6) = C(Z_6)$ .  $P(Z_6) = C(Z_6) = C(Z_6) = C(Z_6)$ .