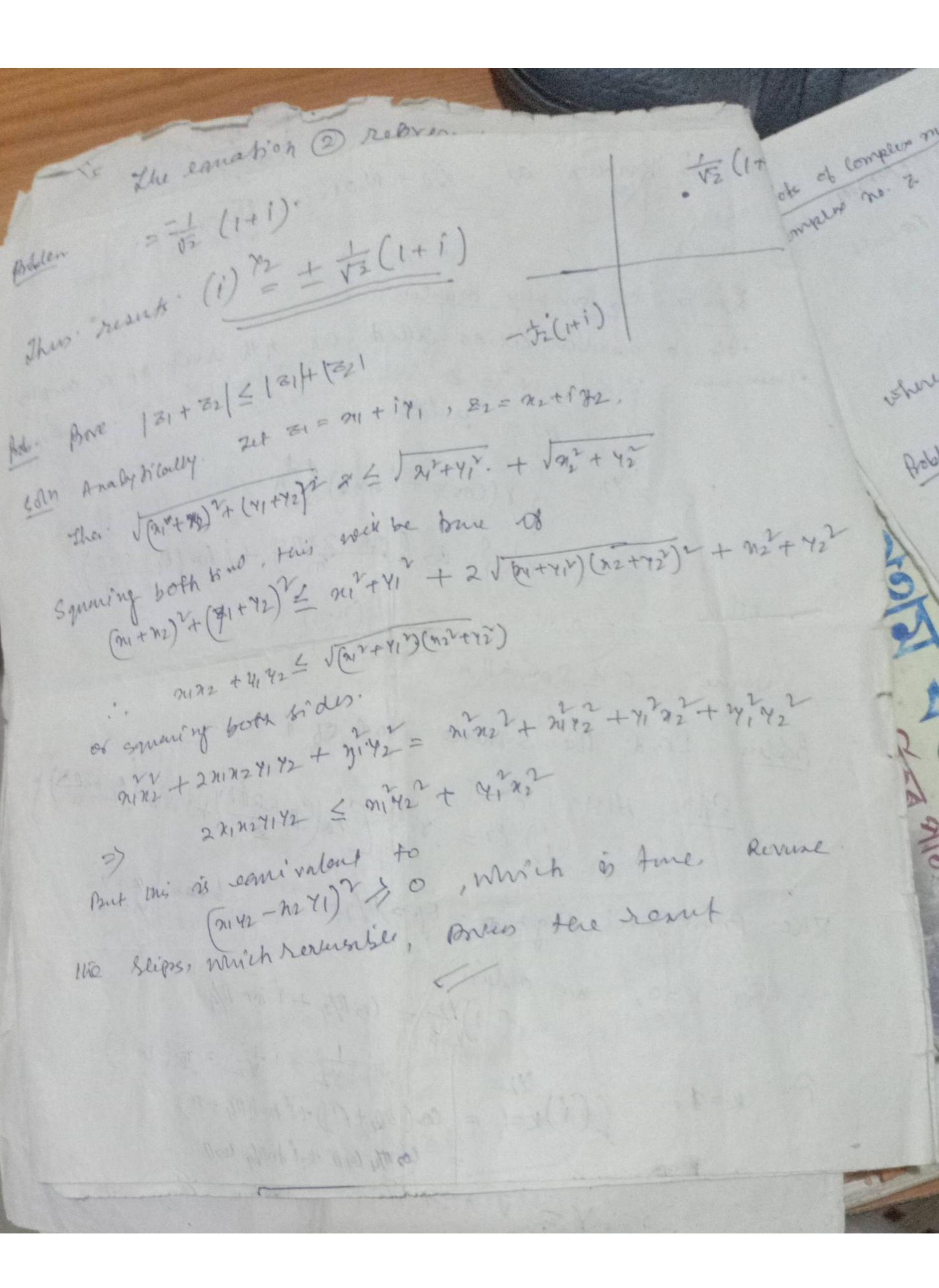
Henre /21+22/2 / 121/2+2/21/22/ + 182/2 17 = (121) + 1021) 131+321 < 1311 + (32) De-Moiver's Theorem o-86. 81= 201+1, 21 = , &1 (coso1+1, &2, wol) = 2= xx+iy2= x2 (coso2+i8202) Then 2122= } 11(cool + idnoy) } } 12 (cool + i know) } = 81 12 9 caro 1 coso2 - Bai brose) + i (8 noiceso2 + Cesco, mas) = rire as(aita) + i sm(ai+ai) The exencelization of this 19th leads -2121--- = { n 2283 --- Ya } { cupit out --- on) } => gb Z====---== Zn=Z, nin Zn = { x (uno + i bro) { = } x (un no + i hn no) } 2h = m(ion no + i 6m no)

uni si renour as De-Moiveri Theorem. Rook. of lamply minher. It a number ew is called an 1th rout of a complex. number Zis Wm = Z => W= 2 124 : Z/n = } x(coso+ibro) } n = 42 Ces (Opt 2 KT) + 1 An (Opt 2 KT) K=0, 1, 2. -- (n-1) 040p(21), find lu square hour 06 ? Son Hue. Z=i x42 [co(0+21/4; dn (0p+2/1x))] becase x = 0 The principal Argz 0 = 0 = 11/2 For K=0, we obtain (1) 12 = (0) 174 + 1 br 17/4 = 大はな=を(1+1) (i) k=1 = co(M4+17)+1m(M4+17) = to 11/4 (0) 11 + i brilly 6011 2 4 H 20



pote of Complex member 3- Db a number w DO WEZT = 12 /2 (0p+2KB) + 1512 (0p+2KB) スカニ イト(LAO+ingho) K=0.1,2+ - - - (x-1) ; pster ocer = 211 (i) = 8 = 8 = 8 (o) (+ 201) + in (0) = 200 (0) = 0. where Boblem! Find The square root of (1) = (8(1)+i)+ik (1)+ik (1)2) op 20/2 (a) Fox Keo, we obtain, = \frac{1}{1} \frac{1} \frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1 (i) = los (7/2+27) + idn (7/2+28) 6 K=1, We oblen = - 1/3 - 1/13 - - 1/2 (1+1) => (i) k=1=-(1(1+1)) Henne rods (i) 12 + +2 (1+i) // ANDO