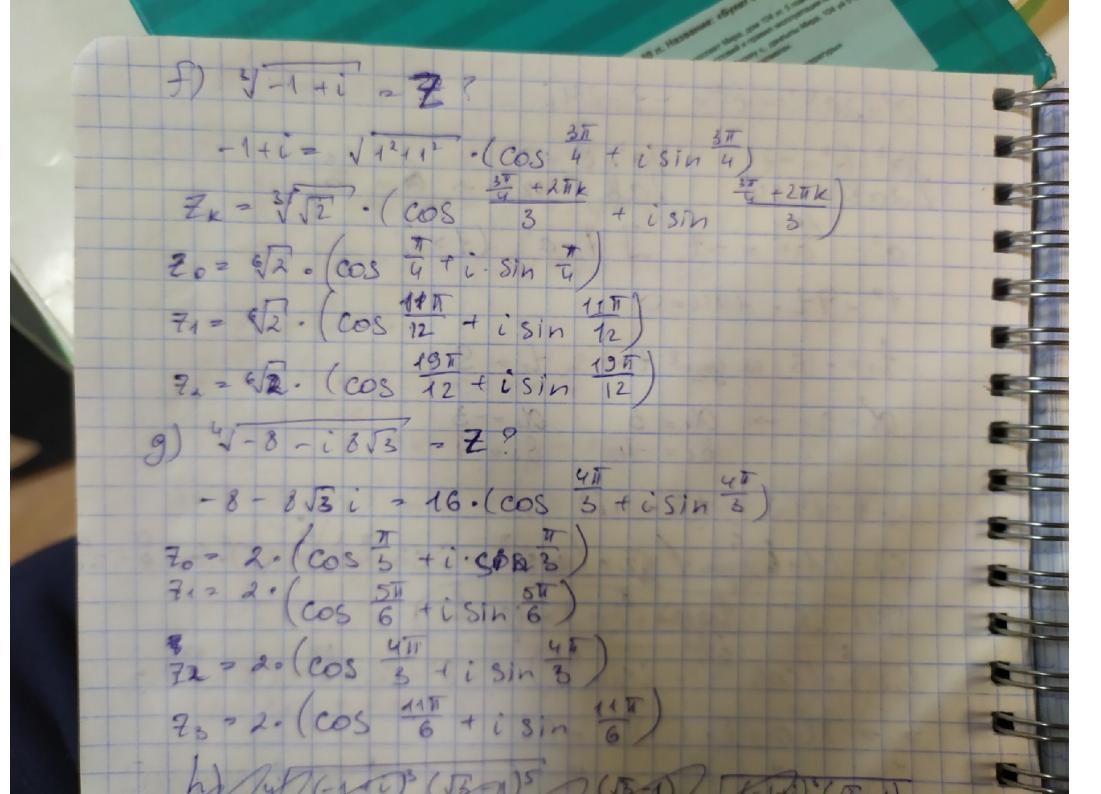
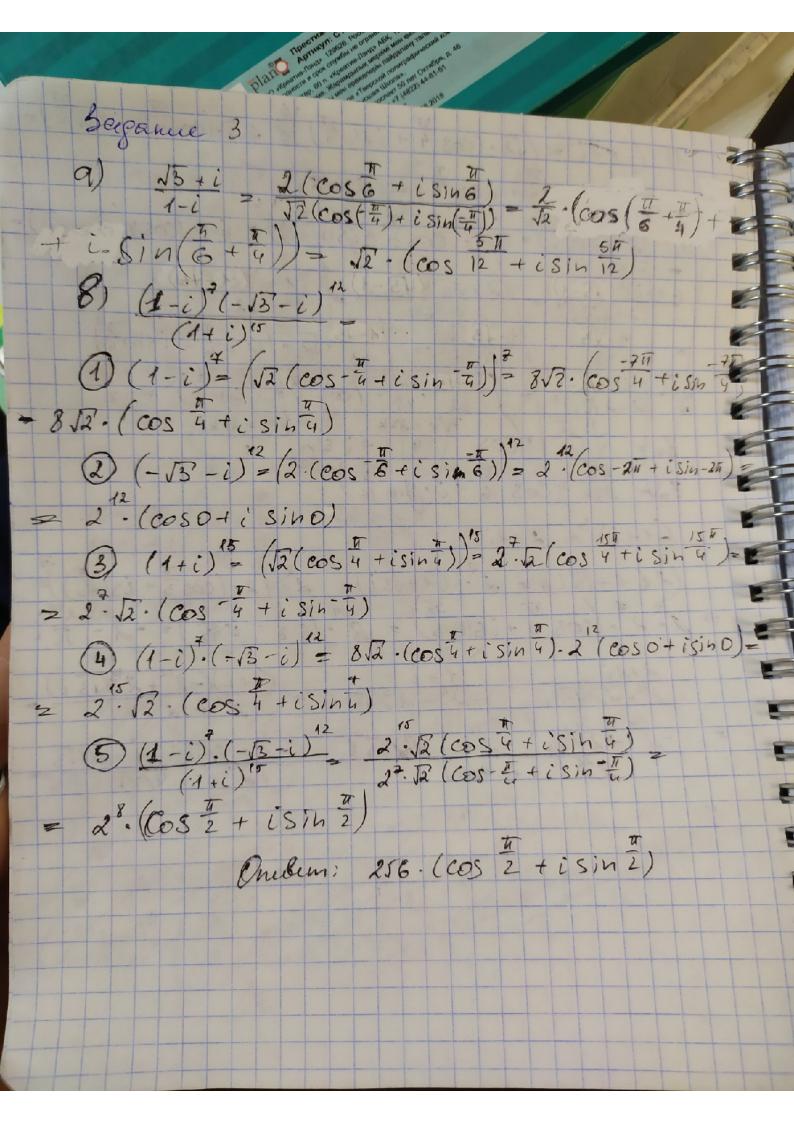
De celecreme Ladone 7 PAPACEBA M3135 Sagara 1 1 a) x +4-4i = - x +29+3i 4+ (x-4) i = (-8 +2y) +3i 12y - x = 4 12 - 4 - 3 => x = 7 24-224 20 4=16 8) (-4+xi) = 6 - 8i + (x+yi)2 y2-2xyi-x2=6-8i+ x2+2xyi-y2 $y^2 + x^2 - 2xyi = 6 + x^2 - y^2 + (2xy - 8)i$ $\frac{1}{2} \frac{y^2 - x^2}{-2xy} = \frac{6 + x^2 - y^2}{2} = \frac{1}{2} \frac{y^2 - x^2}{-2xy} = \frac{3}{2} \frac{2}{xy} = \frac{2}{x}$ x2-x2=3] t=x2 (t>0)=> t-t=3 t²+3t-4=0 (t,=1) t2=-4 ne ygos 6>0. Sagara N2 (5agara N2) a) (5+i)(15=3i) + (34i)(6-5i) = 75-15i+15i+3+1+ 204 i + 170 = 248 + 204 i 8) 1-7-241 = J(a+8i)2

02+2a8i-82=-7-24i Ja²-8²=-2 Laa8=-24 Laa8=-12 - 8 - 12 a2 - 4] b= c2 (t>0) t2 +7t - 144=0 t1=-16 he years to t2=9 $0 = 9 \rightarrow 0 = 3$ 8 = -4 8 = -4J-7-240 = ±(3-4i) 1 c) $(1+6)^6 = (\sqrt{2} \cdot (\cos \frac{\pi}{4} + i \sin \frac{\pi}{4}))^6 = (\sqrt{2})^6 \cdot (\cos \frac{\pi}{4} + i \sin \frac{\pi}{4})$ 1771-12 tq v= 1=1-19-4) $(\sqrt{2})^{6} \cdot (\cos \frac{3\pi}{4} + i \sin \frac{3\pi}{4}) = 8 \cdot (\cos \frac{3\pi}{2} + i \sin \frac{3\pi}{2})$ 3 = 8(0+i.(-1))=-8i d) i + 3i + 5·i + 5·i = i·(i) + 3(i) + 5·i·(i) -3 $-(i)^2 i - 3 - 5i + 1 = -2 - 4i$ e) (2i-1 5-2i) 34 1+4i 4-i) (1-i) = $\frac{2i-1}{1+4i} = \frac{(2i-1)(1-4i)}{(4^{2}-4i)^{2}} = \frac{2i+8-1+4i}{1-7} = \frac{7}{17} = \frac{6}{17}i$ $\frac{5-2i}{4-i} = \frac{(5-2i)(4+i)}{(4^{2}+17)^{2}} = \frac{19}{17} = \frac{17}{17}i$ $\frac{20}{17} + \frac{3}{17}i = \frac{2}{1-i} = \frac{20+3i}{1-i} = \frac{$ (29+3i)(1+i) = 29+29i+3i-3+=26+32i





1+0059+ising 1+cosp - isin'p 0= arcte (3)nce) (gre
recentress)

(= arcte (1+cosq) (shametrajens) \$5 (31h 4) -> замения, что 9°-симинерить 9° выпосит-ень по осм абсуми. => 9= T-9 1+cosp+ising cosp+ising cosp+ising (1+cosp-ising) cosp"+ising cosp"+ising cos(11-p')+isin(11-p') 1. (cos(9-11+4") + i sin(4'- 1+4") = cos(24'-11) + isin = -cos29'= i · sinay'= -cos(a. arete (3ing)) - sin(2. · ancto (1+ cosp) a) (1+cosy+isiny) = tgy= tg 1+cosy -> 9= axetg 1+cosy 1 ((1+cosp)+ising)=1.(cos 80+isin 80)= - cos(8.arctp 1+cosq)+isin(8.aretg 1+cosq) -

Sagare 4 JZ 47 - conpenieursie recha $7 = \cos \varphi + i \cdot \sin \varphi$; $7 = \cos \varphi - i \sin \varphi = \cos \varphi + i \sin \varphi$ (Z) = cos 34 + i. sin39 (7) = cos(3(-4))+ i. sin(3.(-4)) = cos 34 + i. sin(3(4))= = cos 39 - i. sin 30 -> Bareener, remo Olo conpeniens 7 = cos 34 + i. són 34 Sapare 5. Danos 171=1] Z = (cosp + isinp).1 1=1.(coso + i.sino) 7 = coso + c. sino = cos(-9) + i. sin(-9) = = cosq - ising = Z · fung.

BAgaze 6 Q2+82 Q2+82