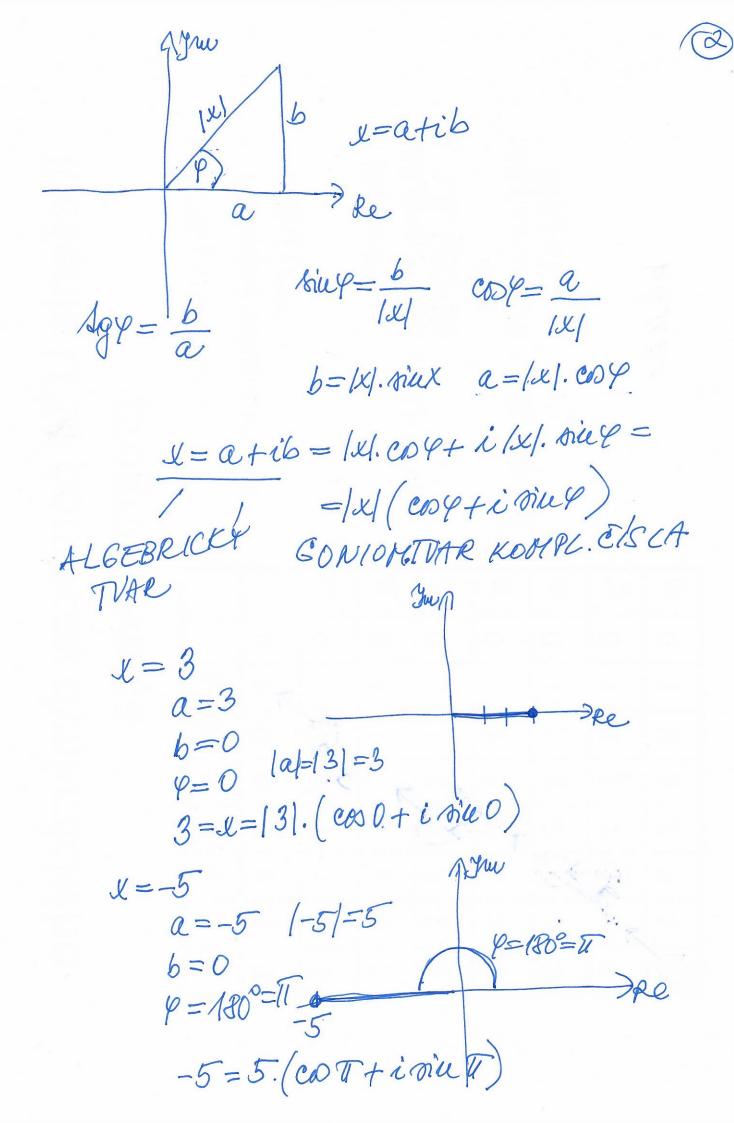
C= jetibi aber i € je IMAG. J EDNOTKA P DET. 12=7 RCC atib; ab 6=0 i = 0 - 13mx &=atib Rent J-a-ib JE KDENKENE x=atib (2+3i) + (-5-10i) = (2-5) + i(3-10) = -3-4i $(1+i)(4-5i) = 1.4+4.i -5i-5i^2 = 4-5(-1)+$ + (-i) = 9-i; pou 2+31=1+31 (2+3i) (1+i) = 2+3i+3i²+2i = -1+5i (e-6)(a+6)=a2-62





$$x = -3i$$
 $\alpha = 0 = 3$
 $|x| = 3$
 $|x| = 3$
 $|x| = 3 \cdot \sqrt{2}$
 $|x| = 3 \cdot \sqrt{2}$

$$X = 14 - i \quad a = 1 \quad b = -1$$

$$|X| = \sqrt{1^2 + (-1)^2} = \sqrt{2}$$

$$189 = \frac{-1}{1} - 1$$

$$9 = 3.\frac{\pi}{2} + \frac{\pi}{4} = \frac{4}{4}$$

$$1 = \sqrt{2}.(\cos(-\frac{\pi}{4}) + i\sin(-\frac{\pi}{4}))$$

MOLUREOUA VERA PRIKLAD.
12
(1-i1/3) x=14.(costinas) I = |x| (costinus)= x=1-i13 $|x| = \sqrt{1^2 + (-13)^2} = \sqrt{1 + 3} = \sqrt{4 - 2}$ $|x| = \sqrt{1^2 + (-13)^2} = \sqrt{1 + 3} = \sqrt{4 - 2}$ 1344 189= b = -13 - 13 - 13 - 13 Re $\varphi = 60^\circ = \frac{\pi}{3} \qquad \left(2 = 2 \cdot \left(\cos \left(-\frac{\pi}{3} \right) + i \sin \left(-\frac{\pi}{3} \right) \right) \right)$ $X = 2 \cdot \left(\cos \frac{\pi}{3} - i\sin \frac{\pi}{3}\right) =$ $Cos\left(-\frac{\pi}{3}\right) = Coo\frac{\pi}{3}$ $siu(-\frac{\pi}{3}) = \frac{12\pi}{3} - siu(\frac{\pi}{3}) = 2 \cdot (\cos \frac{12\pi}{3} - i \sin \frac{12\pi}{3}) =$ $=2.(\cos 4\pi - i\sin 4\pi) =$ $=2.(\cos 4\pi - i\sin 4\pi) =$ $=2.(\cos 4\pi - i\sin 4\pi) =$ R=1 COP eve-x-ord SUR. RODU WAJED.

(your altorica GODU NA JEDNOT.

KRUENICI

$$V_{1}V_{1}V_{2}C_{0}T_{2}:$$

$$\mathcal{X} = \left[2.\left(co\sum_{q}^{T} + inus_{q}^{T}\right)\right] \cdot \left[6.\left(co\sum_{q}^{T} + inus_{q}^{T}\right)\right] =$$

$$= 12 \cdot \left(co\sum_{q}^{T} + \frac{\pi}{12}\right) + iniu\left(\frac{\pi}{4} + \frac{\pi}{12}\right) =$$

$$= 12 \cdot \left(co\sum_{q}^{T} + inus_{q}^{T}\right) + iniu\left(\frac{\pi}{4} + \frac{\pi}{12}\right) =$$

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$$PREUEDTE NA ALGERI. TUAR$$

$$= 12 \cdot \left(co\sum_{q}^{T} + inus_{q}^{T}\right)$$

$$= 1$$

NAPISTE V ALGEBR. TVARE

$$5. (cos 240^{\circ} + i rin 210^{\circ}) = 5. (-\frac{13}{2} - i \frac{1}{2}) = -\frac{5.13}{2} - i \frac{5}{2}$$
 4.14
 $cos 240^{\circ} = -cos 30^{\circ} = -\frac{13}{2}$
 $siu 210^{\circ} = -siu 20^{\circ} = -\frac{1}{2}$

$$\frac{\frac{3}{4}(\cos\frac{3}{3}+i\sin\frac{3}{3})}{4\cdot(\cos\frac{3\pi}{4}+i\sin\frac{3\pi}{4})} = \frac{\frac{3}{4}(\cos(\frac{\pi}{3}-\frac{3\pi}{4})+i\sin\frac{\pi}{3}-\frac{3\pi}{4})}{4\cdot(\cos\frac{3\pi}{4}+i\sin\frac{\pi}{4}-\frac{3\pi}{4})}$$

$$=\frac{3}{16}\cdot\left[\cos\left(-\frac{5\pi}{12}\right)+i\sin\left(-\frac{5\pi}{12}\right)\right]=$$

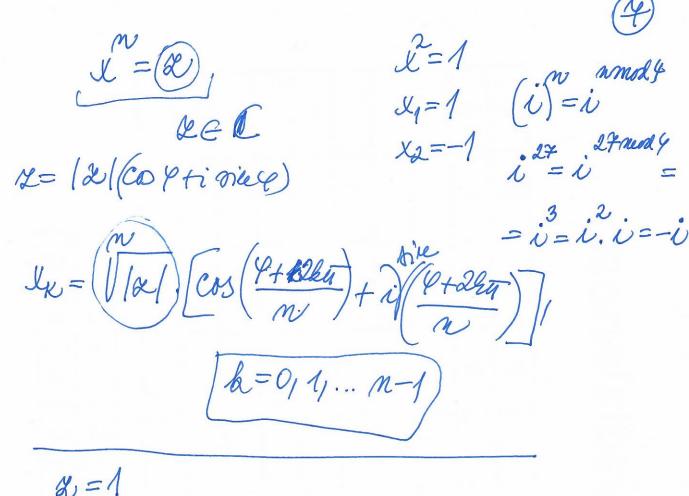
$$\frac{\pi}{3} - \frac{3\pi}{4} = \frac{4\pi - 9\pi}{12} = -\frac{5\pi}{12} = \frac{3}{16} \cdot \left[\cos \frac{5\pi}{12} - i \sin \frac{5\pi}{12} \right]$$

PREKLAD.

JEDNOTKOU.

$$|x|=1 \quad x=\frac{02}{2}-i\frac{x}{2}$$

$$|x| = \sqrt{\frac{(\sqrt{2})^2}{2} + (-\frac{\sqrt{2})^2}{2}} = \sqrt{\frac{2}{4} + \frac{2}{4}} = 1$$



&=1 AR R=1, POCTTANE KORENE 21

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$$9 = 0 \quad |1| = 1$$

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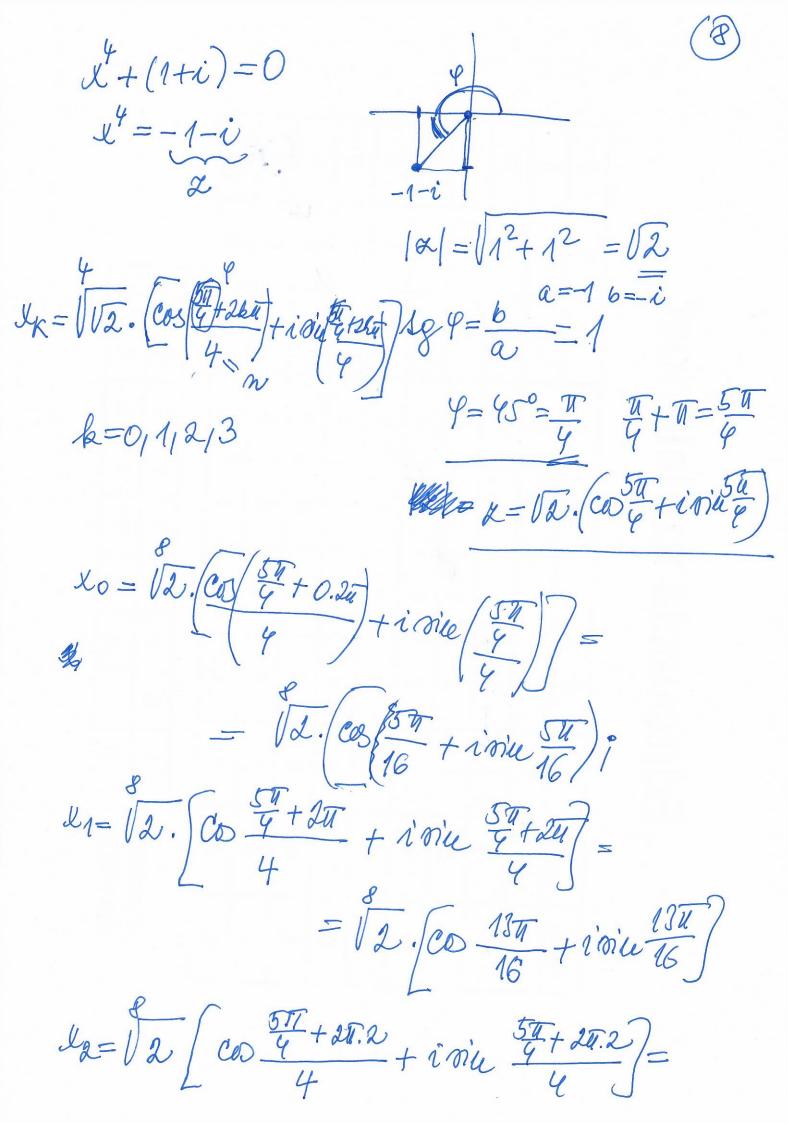
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$$12 = \sqrt{2} \left[\cos \frac{21\pi}{16} + i \sin \frac{21\pi}{16} \right]$$

$$l_{3} = \sqrt{2} \cdot \left[\cos \frac{5\pi}{4} + 2\pi \cdot 3 + i \sin \frac{5\pi}{4} + 2\pi \cdot 3 \right] =$$

$$= \sqrt{2} \cdot \left[\cos \frac{29\pi}{4} + i \sin \frac{29\pi}{16} \right]$$

$$U_3' = (02)^4 \cdot (\cos \frac{29\pi}{16} \cdot 4 + i \sin \frac{29\pi}{16} \cdot 4) =$$

$$= \sqrt{2} \cdot (\cos \frac{29\pi}{4} + i \sin \frac{29\pi}{4})$$

$$\frac{29\pi}{4} = 244 \frac{(24+5)\pi}{4} = (6\pi + \frac{5}{4}\pi)$$

$$= \sqrt{2} \cdot (\cos \frac{5\pi}{4} + i \sin \frac{5\pi}{4}) = \cos(5) = \cos($$

$$|3+2i| = \sqrt{3^2+4} = \sqrt{13}$$

 $|3-2i| = \sqrt{9+(-2)^2} = \sqrt{13}$

 $\left| \frac{3+2i}{3-2i} \right| = \frac{|3+2i|}{|3-2i|} = 1$

$$\left| \frac{3+2i}{3-2i} \right| = \left| \frac{3+2i}{3-2i} \cdot \frac{3+2i}{3+2i} \right| = \left| \frac{9+12i+4i^2}{9+4i} \right| =$$

$$= \frac{5+12i}{13} = \frac{1}{13} \cdot \frac{5+12i}{13} = \frac{1}{13}$$

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