Zoel. 1).

a) 2=1+i

$$2 = 1 + i$$

$$2 = r \left(\cos Q + i\sin Q\right)$$

$$r = |7| = \sqrt{1 + 1^2} = \sqrt{2}$$

X= y=(

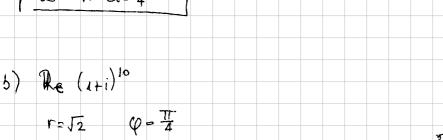
$$Y = |Z| = \sqrt{1 + 1^2} = \sqrt{2}$$
 $fg \varphi = \frac{y}{x} = \frac{1}{1} = 1$ 

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

$$Q = \frac{\pi}{4}$$

$$Z = \sqrt{2} \left( \cos \frac{\pi}{4} + i \sin \frac{\pi}{4} \right)$$

$$Z = \sqrt{2} \cos \frac{\pi}{4}$$



$$\begin{array}{c}
\frac{11}{4} \\
5 \frac{17}{4}
\end{array} = \left(\sqrt{2}^{0} \cdot \dot{u} \cdot \dot{s} \cdot \frac{17}{4} \cdot 10\right)$$

 $(1+i)^{10} = \left(\sqrt{2} \text{ ais } \frac{11}{4}\right) = \left(\sqrt{2}^{10} \cdot \text{ais } \cdot \frac{11}{4} \cdot 10\right)$  $2^{5}$ .  $a = \frac{5\pi}{2} = 32 \cdot a = 32 \left( \cos \frac{5\pi}{2} + i \sin \frac{5\pi}{2} \right)$ 

Takina 2bicka:

$$\frac{(1+i)^{2}}{1-i} = 2^{n}$$

$$\frac{1}{1-i} = \frac{1}{1+i} = \frac{(1+i)^{2}}{1-i^{2}} = \frac{1+2i-1}{1+1} = \frac{2}{2} = \frac{i}{2}$$

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$$\frac{1}{1-i} = \frac{1+2i}{1+i} = \frac{1+2i-1}{1+1} = \frac{1+2i-1}{1+1} = \frac{1+2i-1}{1+1}$$

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$$\frac{1}{1-i} = \frac{1+2i-1}{1+1}$$

$$\frac{1}{1-i}$$

$$\frac{11}{6}, \frac{517}{6}, \frac{917}{6}, \frac{317}{2}$$

S(-2,0) 7 (=1

(1)

\*Nadike size 
$$2 \in C$$
 to array  $(2^3) = \frac{17}{2}$  i  $(2+2) = 1$ 
 $C = \frac{1}{6}$ ,  $\frac{57}{6}$   $\frac{917}{6}$ 

1. promy in je moguć

samo u privagi

 $12+21=1$ 

2. samo u privagi

 $1(-\cos(x+2)^{4})^{4}$   $\frac{1}{3}$   $\frac{1}{6}$ 
 $1(-\cos(x+2)^{4})^{4}$   $\frac{1}{3}$   $\frac{1}{6}$ 
 $1(\cos(x+2)^{4})^{4}$   $\frac{1}{3}$   $\frac{1}{6}$ 
 $1(\cos(x+2)^{4})^{4}$   $\frac{1}{3}$   $\frac{1}{6}$ 
 $1(\cos(x+2)^{4})^{4}$   $\frac{1}{3}$   $\frac{1}{3}$   $\frac{1}{4}$   $\frac{1}{4}$ 

$$r_{1,2} = \frac{+2\sqrt{3} \pm \sqrt{4 \cdot 3} - 4 \cdot 3}{2} = \frac{+2\sqrt{3} \pm 0}{2}$$

Odredite kompl. br. 20 kgje je 2+ 1=-1 1 RE # 20  $\frac{1}{2^2} + \frac{1}{2^2} = -1 / \cdot 2^2$ 24 + 1+22=0 t2 +t +1 =0 412 -12 1-4 -12 131  $rac{1}{2} = \frac{\sqrt{-\sqrt{3}}i}{2} = \frac{-1}{2}$ 1 2 2 73  $J^2 = -\frac{1}{2} - \frac{3}{2}$   $\Gamma = 1$  $\frac{1}{2} = \frac{1}{2} + \frac{13}{3}$  $f_{3} V = \frac{-\frac{63}{2}}{\frac{1}{3}} = \sqrt{3}$  $\frac{1}{2} \varphi = \frac{\sqrt{3}}{2} = -\sqrt{3}$ 22= cis \$ / 5 4201 2 = cos = 2 + isin = +260 2=036  $\frac{2}{2} = \cos \frac{\sqrt{3} + 2\sqrt{11}}{2} + i \sin \frac{2\pi}{3} + 2\sqrt{11}$ Rez Zo a toje

2ad Ricik pedlakost bourpletma trg = 
$$2^6 = \overline{2}(1-i)$$

$$|\overline{Z}_1| = |\overline{Z}_2|$$

$$|Q_1 = Q_2 + \overline{\lambda}_1 \overline{1}| (a_1 a_2^2 a_1 = a_1 a_2^2 a_2)$$

$$|\overline{Z}_2| = |\overline{Z}_1(1-i)|$$

$$|Q_1| = |\overline{Z}_2(1-i)|$$

$$|Q_2| = |\overline{Z}_1(1-i)|$$

$$|Q_2| = |\overline{Z}_1(1-i)|$$

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$$|Q_1| = |\overline{Z}_1(1-i)|$$

$$|Q_2| =$$

Jednokost: 
$$2 = 2_2 \implies \begin{cases} x_1 = x_2 \\ y_1 = y_2 \end{cases}$$

Antojanjo:  $2_1 + 2_2 = (x_1 + x_2) + i(y_1 + y_2)$ 

Mnosanjo:  $2_1 + 2_2 = (x_1 + x_2) + i(y_1 + y_2)$ 

Diglyanjo:  $2_1 = x_1 + iy_1 = x_2 - iy_2 = x_2 - iy_2$ 

MODUL:  $2_1 = r = \sqrt{x^2 + y^2}$ 
 $2_1 = x_2 + iy_2 = x_2 - iy_2$ 
 $2_1 + 2_2 = \sqrt{x_1 + 2_2} = \sqrt{x_2 - iy_2}$ 
 $2_1 + 2_2 = \sqrt{x_1 + 2_2} = \sqrt{x_2 - iy_2}$ 

TRIGONOMETRIJSKI ZAPIS:

 $2 = 121(\cos \varphi + i\sin \varphi) - r(\cos \varphi + i\sin \varphi)$ 
 $2 = 121(\cos \varphi + i\sin \varphi) - r(\cos \varphi + i\sin \varphi)$ 
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 $4 = 121(\cos \varphi + i$ 

Korjenovauje  $\sqrt{z} = \sqrt{r} \left( \cos \frac{\varphi_{12} \epsilon_{7}}{r} + i \sin \frac{\alpha + 2 \epsilon_{7}}{r} \right)$ 

Poknairauje: 2, = r, (cos(n:a) + isin(n (a))

1.16)
$$r = \sqrt{2} + \sqrt{2} + \sqrt{2} = \sqrt{2}$$

$$2 = \sqrt{2} + \sqrt{2} + \sqrt{2} = \sqrt{2} + \sqrt{2} = \sqrt{2}$$

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