TRASFRANCE IN FORM TRUE. 
$$2(\cos \frac{3}{2}\pi + i \sin \frac{3}{2}\pi)$$

$$2 = x + i \cdot U$$

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IN FORMA ALGEBRICA:

$$2_{1} \cdot 2_{2} = (\sqrt{3} - i)(1 + \sqrt{3}i) = \sqrt{3} + 3i - i + \sqrt{3} = 2\sqrt{3} + 2i$$

$$z_1 = \sqrt{3} - i = 2 \left( \cos \frac{11}{6} \pi + i \sin \frac{11}{6} \pi \right)$$
  $z_2 = 1 + \sqrt{3} i = 2 \left( \cos \frac{\pi}{3} + i \sin \frac{\pi}{3} \right)$ 

$$\tan v_1^2 = \frac{1}{\sqrt{3}} = -\frac{\sqrt{3}}{3}$$

$$v_{4} = 2\pi - \frac{\pi}{6} = \frac{11}{6}\pi$$
travious large

$$\sqrt{2} = \frac{\pi}{3}$$

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$$\frac{2}{4} \cdot \frac{2}{2} = 2 \cdot 2 \left( \cos \left( \frac{11}{6} \pi + \frac{\pi}{3} \right) + i \sin \left( \frac{11}{6} \pi + \frac{\pi}{3} \right) \right) =$$

$$= 4 \left( \cos \frac{13}{6} \pi + i \sin \frac{13}{6} \pi \right) = 4 \left( \frac{\sqrt{3}}{2} + i \cdot \frac{1}{2} \right) =$$

$$\frac{13}{6}\pi = 2\pi + \frac{\pi}{6}$$

$$\frac{1}{2} \left( \cos \frac{\pi}{4} + i \sin \frac{\pi}{4} \right)^6 = \left[ -\frac{1}{64} i \right]$$

$$= \left(\frac{1}{2}\right)^{6} \left[\cos\left(6\cdot\frac{\pi}{4}\right) + i\sin\left(6\cdot\frac{\pi}{4}\right)\right] =$$

$$= \frac{1}{64} \left[ \cos \frac{3}{2} \pi + i \sin \frac{3}{2} \pi \right] = \frac{1}{64} \left[ 0 + i \cdot (-1) \right] = -\frac{1}{64} i$$

$$\left[ \sqrt{3} \left( \cos \frac{2}{3} \pi + i \sin \frac{2}{3} \pi \right) \right]^{-3} = \left[ \frac{\sqrt{3}}{9} \right]$$

$$= (03)^{-3} \left( \cos \left( -3.\frac{2}{3}\pi \right) + i \sin \left( -3.\frac{2}{3}\pi \right) \right) =$$

$$= \frac{1}{(\sqrt{3})^3} \left( \cos 2\pi - i \sin 2\pi \right) = \frac{1}{3\sqrt{3}} \cdot \left( 1 - i \cdot 0 \right) = \frac{1}{3\sqrt{3}} \cdot \left( \sqrt{3} \right) = \frac{$$

CALCOLARE IL QUOZIENTE

292 
$$z_1 = 4\left(\cos\frac{9}{16}\pi + i\sin\frac{9}{16}\pi\right),$$
  $z_2 = 2\left(\cos\frac{5}{16}\pi + i\sin\frac{5}{16}\pi\right).$ 

$$\frac{21}{22} = \frac{4}{2} \left( \cos \left( \frac{9}{16} \pi - \frac{5}{16} \pi \right) + i \sin \left( \frac{9}{16} \pi - \frac{5}{16} \pi \right) \right) =$$

$$= 2 \left( \frac{1}{4} + i \sin \frac{\pi}{4} \right) = 2 \left( \frac{\sqrt{2}}{2} + i \frac{\sqrt{2}}{2} \right) = \left( \frac{\sqrt{2}}{2} + \sqrt{2} i \right)$$

334 
$$z_1^2 + z_2$$
;

$$z_1 = \cos\frac{\pi}{3} + i\sin\frac{\pi}{3},$$

$$z_2 = \cos\frac{4}{3}\pi + i\sin\frac{4}{3}\pi.$$

$$\frac{2}{3} + \frac{1}{2} = \left(\cos \frac{\pi}{3} + i \sin \frac{\pi}{3}\right)^2 + \left(\cos \frac{4}{3}\pi + i \sin \frac{4}{3}\pi\right) =$$

$$= \left(\cos \frac{2\pi}{3} + i \sin \frac{2\pi}{3}\right) + \left(\cos \frac{4\pi}{3} + i \sin \frac{4\pi}{3}\right) =$$

$$= -\frac{1}{2} + i \frac{\sqrt{3}}{2} + \left(-\frac{1}{2} - \frac{\sqrt{3}}{2}i\right) = -1$$

$$332 \left[\sqrt{2}\left(\cos\frac{\pi}{12} + i\sin\frac{\pi}{12}\right)\right]^2 \cdot \left(\cos\frac{\pi}{6} + i\sin\frac{\pi}{6}\right) =$$

$$= 2 \left( \cos \frac{\pi}{6} + i \sin \frac{\pi}{6} \right) \cdot \left( \cos \frac{\pi}{6} + i \sin \frac{\pi}{6} \right) =$$

= 2 
$$\left(\cos \frac{\pi}{3} + i \sin \frac{\pi}{3}\right) = 2 \left(\frac{1}{2} + i \frac{\sqrt{3}}{2}\right) = \left[1 + \sqrt{3} i\right]$$