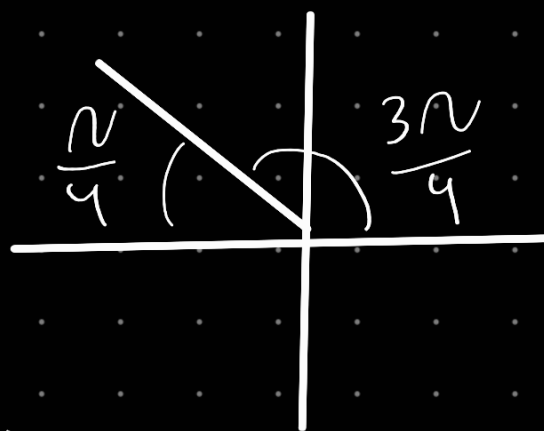


2a)

$$a) (-1 + i)^{1/3}$$



$$\left[\sqrt{2} \angle \frac{3\pi}{4} \right]^{1/3}$$

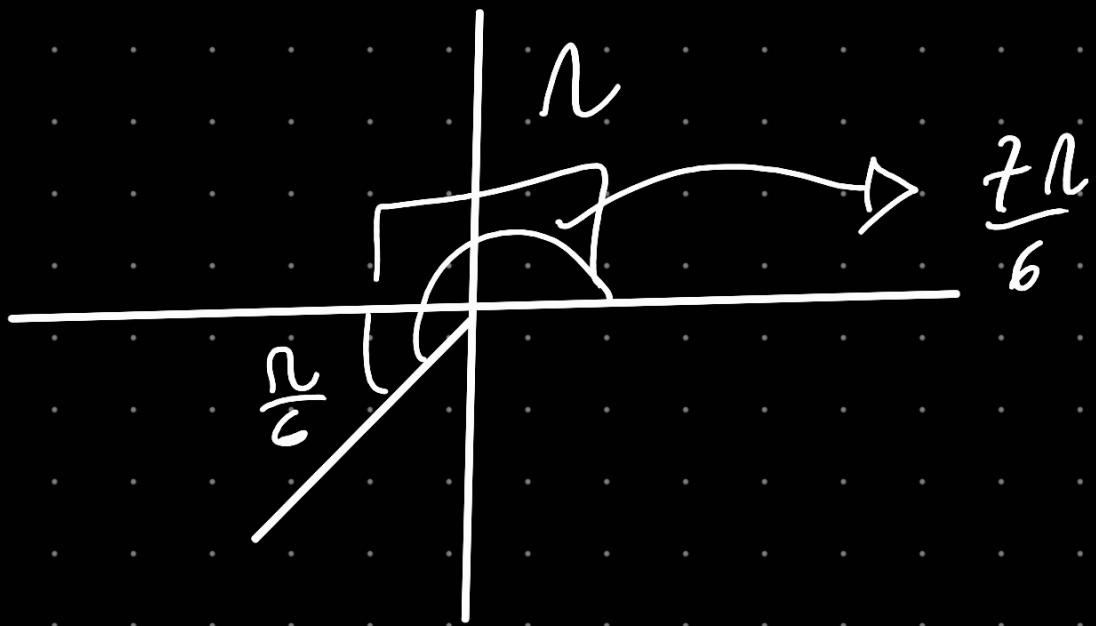
$$2^{1/6} \angle \frac{\frac{3\pi}{4} + 2K}{3} \quad n$$



$$2^{1/6} \angle \frac{3 + 8K}{12} n$$

$$K = \{0, 1, 2\}$$

$$b) (-2\sqrt{3} - 2i)^{1/4}$$



$$\left(4 \sqrt[4]{\frac{7}{6} n} \right)^{1/4}$$

$$4^{1/4} \angle \left(\frac{\frac{7}{6} + 2K}{4} n \right)$$

$$4^{1/4} \angle \left(\frac{7 + 12K}{24} \right)$$

$$K = \{0, 1, 2, 3\}$$

31)

$$az^2 + bz + c = 0 \quad \dots \cdot 4a$$

$$(2az)^2 + 2(2az)b = -4ac \dots + b^2$$

$$(2az + b)^2 = b^2 - 4ac \dots \sqrt{}$$

$$z = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$50) z^4 - z^2 + 16 = 0$$

$$z^2 = \frac{1 \pm \sqrt{1 - 4 \cdot 1 \cdot 16}}{2}$$

$$z^2 = \frac{1}{2} \pm \frac{3}{2}i\sqrt{7}$$

$$z^2 = 4 \angle \pm 1,445$$

$$z = \begin{cases} 2 \angle 0,7225 \\ 2 \angle 3,864 \end{cases}$$

$$2 \angle 37.5^\circ$$

$$2 \angle 0,7225$$

$$2 \angle 2,419$$