

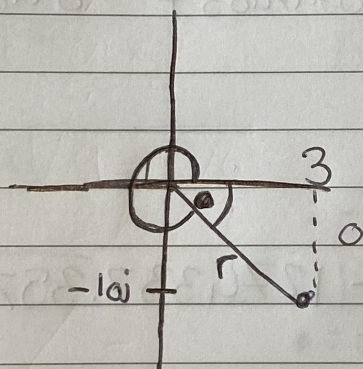
$$r \cos \theta + j \sin \theta$$

$$0.451 (\cos 33.69 + j \sin 33.69)$$

C de Moivre's theorem

$$1 (3-10j)^6$$

$$r^n (\cos n\theta + j \sin n\theta)$$



$$r^2 = 3^2 + 10^2$$

$$r = \sqrt{9 + 100}$$

$$r = \sqrt{109}$$

$$r = \underline{\underline{10.44}}$$

$$\tan \theta = \frac{10}{3}$$

$$\theta = \tan^{-1} \left(\frac{10}{3} \right)$$

$$\theta = 73.3^\circ$$

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