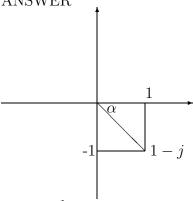
QUESTION Write z = 1 - j in exponential form.

ANSWER



$$\tan \alpha = \frac{1}{1} = 1, \ \alpha = \frac{\pi}{4}, \ r = \sqrt{(1^2 + (1)^2)} = \sqrt{2} \text{ therefore } 1 - j = \sqrt{2}e^{-j\frac{\pi}{4}}$$