## QUESTION

Write $z=1-j$ in exponential form.

## ANSWER


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

