

PB 03

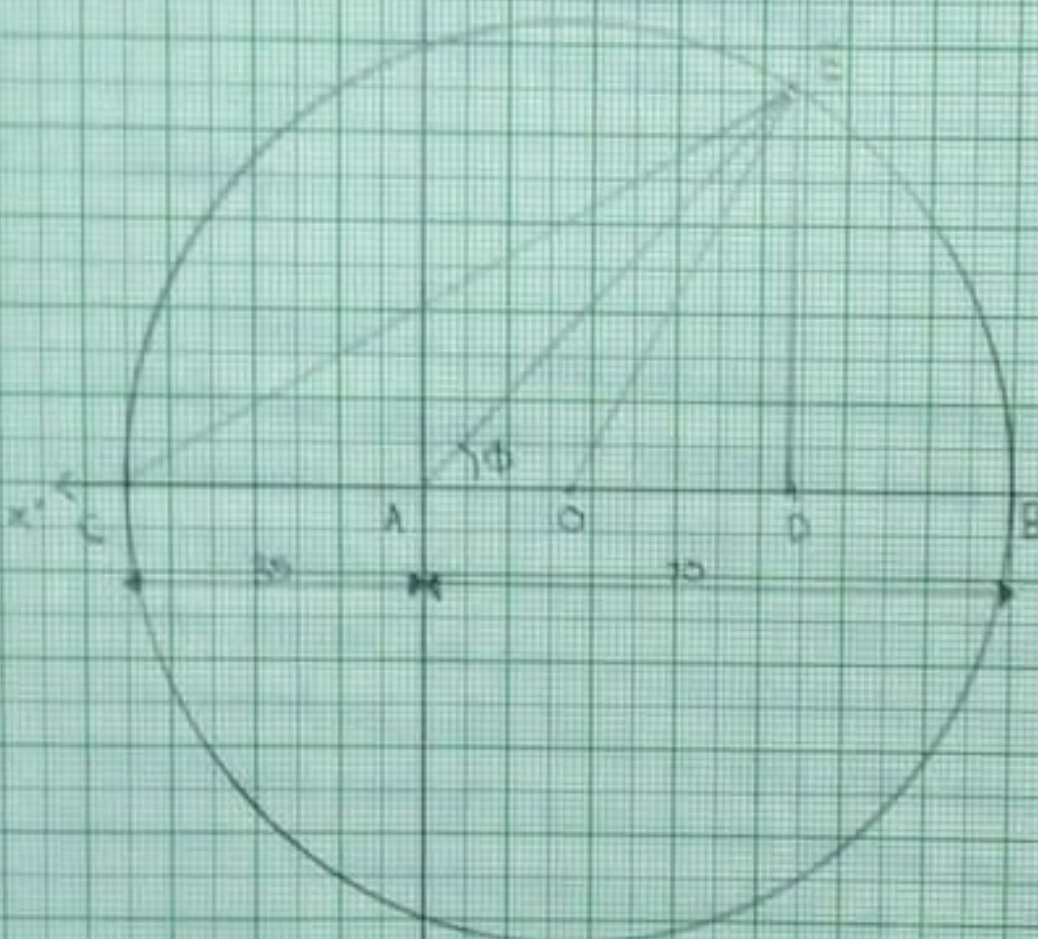
MOHR'S CIRCLE

Scale

On x-axis \rightarrow

On y-axis \rightarrow

1 cm = 10 MPa



$$\phi = 47^\circ$$

$$AE = 6.4 \text{ cm}$$

$$AD = 4.4 \text{ cm}$$

$$ED = 4.8 \text{ cm}$$

$$\therefore \text{Resultant Stress} = AE \times \text{Scale} = 64 \text{ MPa}$$

$$\therefore \text{Normal Stress} = AD \times \text{Scale} = 44 \text{ MPa}$$

$$\therefore \text{Shear Stress} = ED \times \text{Scale} = 48 \text{ MPa}$$

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