



$$\sigma_{xx} = 200 \text{ MPa}$$

$$\sigma_{yy} = -20 \text{ MPa}$$

$$\tau_{xy} = -60 \text{ MPa}$$

PLOT THE POINTS $X(200, 60)$ & $Y(-20, -60)$ AND DRAW MOHR'S CIRCLE (CENTRE, A) - SEE CHART Q16.

THE PLANE NORMAL TO OUR PLANE OF INTEREST LIES AT 45° ANTICLOCKWISE TO THE X-FACE. THUS, ROTATE THROUGH $2 \times 45^\circ$ ANTICLOCKWISE ABOUT A FROM AX TO POINT P $(30, 110)$.

THUS, $\underline{\sigma_p = 30 \text{ MPa}}$, $\underline{\tau_p = 110 \text{ MPa}}$ CLOCKWISE
 (SINCE THE POINT, P, IS ABOVE THE ABSCISSA)