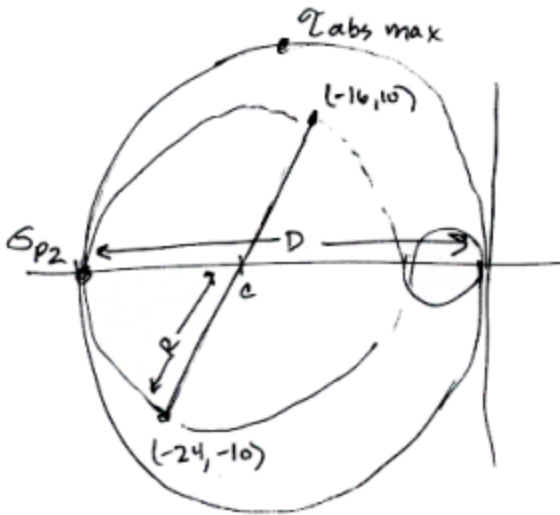
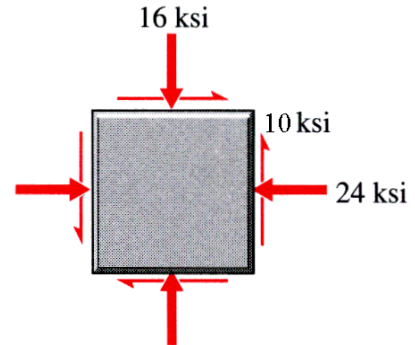


The stresses shown act at a point on the free surface of a stressed body. Determine the absolute maximum shear stress at the point.

Show steps clearly; box the final answer.



$$C = \frac{-24 - 16}{2} = -20$$

$$R = \sqrt{4^2 + 10^2} = 10.77$$

$$\sigma_{p2} = C - R = -30.77 = D$$

$$\tau_{abs. max} = \frac{D}{2} = 15.39 \text{ ksi}$$