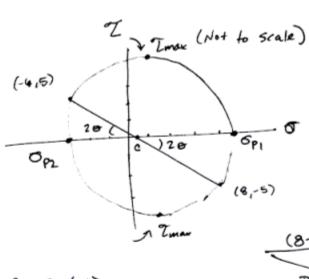
Use Mohr's circle to determine the principal stresses and the maximum in-plane shearing stress and show these stresses on a properly labeled and oriented sketch (i.e., a single wedge element or two square elements).

Show steps clearly.



$$C = \frac{8 + (-6)}{2} = \frac{2}{2} = 1$$

