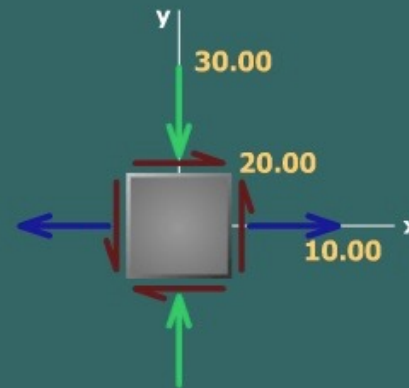


One of the Mohr's circles shown is correct for the state of stress depicted on the stress element. Click on the correct Mohr's circle.

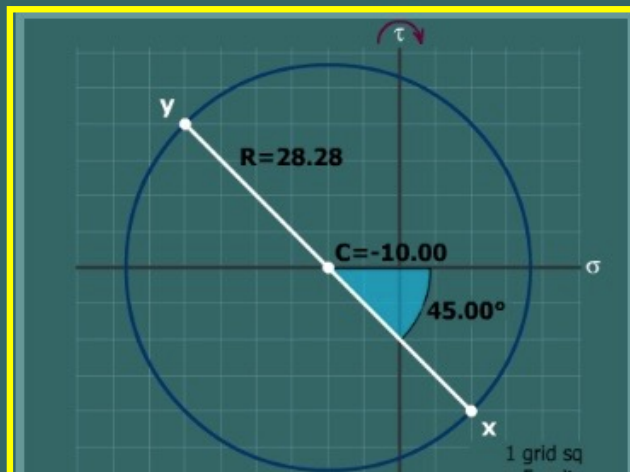
Q1

$$\sigma_{ave} = \frac{10 - 30}{2} = -10$$

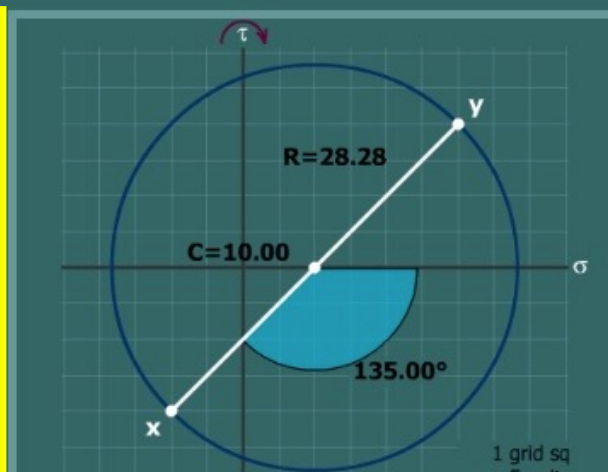
$$x - axis = (\sigma_x, \tau_{xy}) = (10, 20)$$



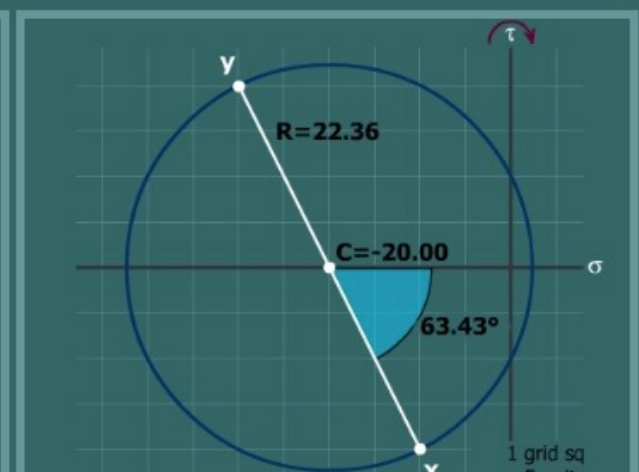
Mohr's circle A



Mohr's circle B

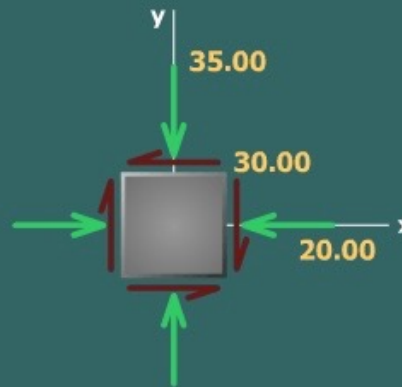


Mohr's circle C



One of the Mohr's circles shown is correct for the state of stress depicted on the stress element. Click on the correct Mohr's circle.

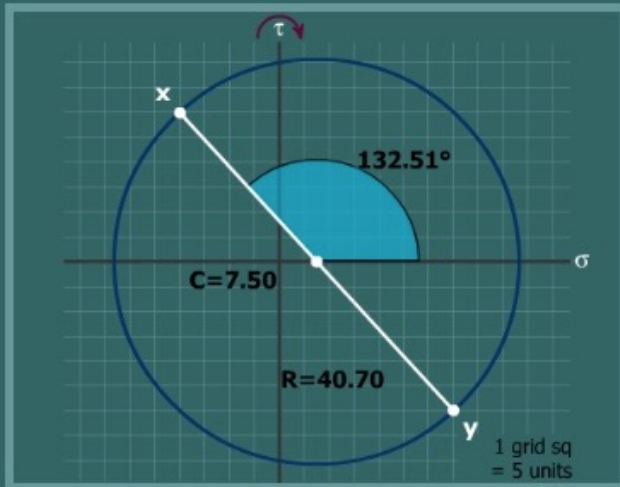
Q2



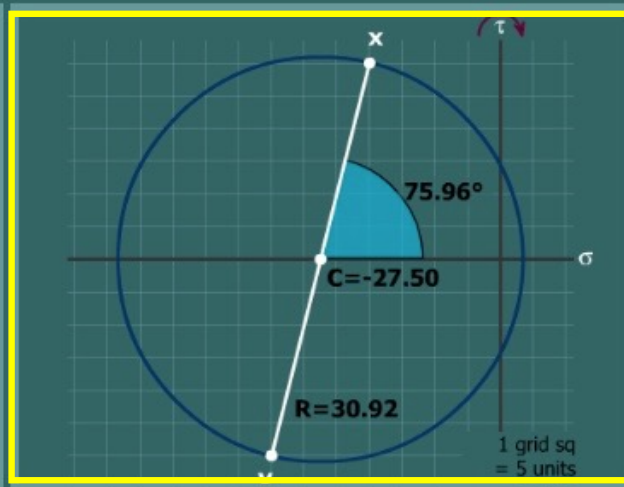
$$\sigma_{ave} = \frac{-20 - 35}{2} = -27.5$$

$$x - axis = (\sigma_x, \tau_{xy}) = (-20, -35)$$

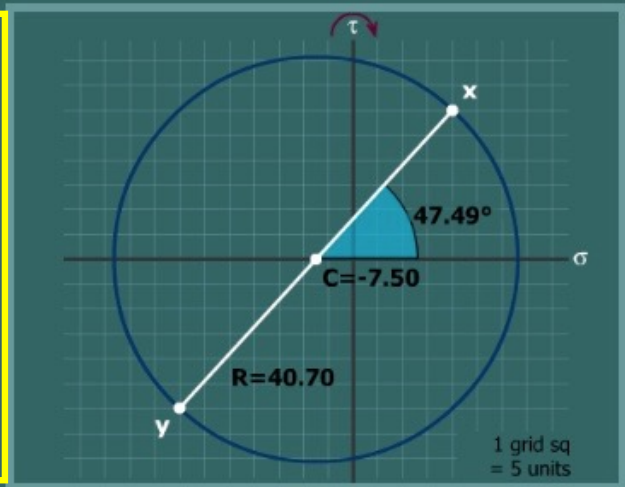
Mohr's circle A



Mohr's circle B

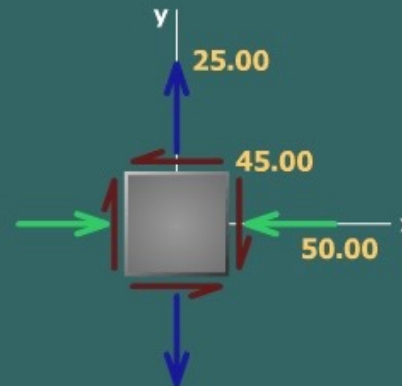


Mohr's circle C



One of the Mohr's circles shown is correct for the state of stress depicted on the stress element. Click on the correct Mohr's circle.

Q3



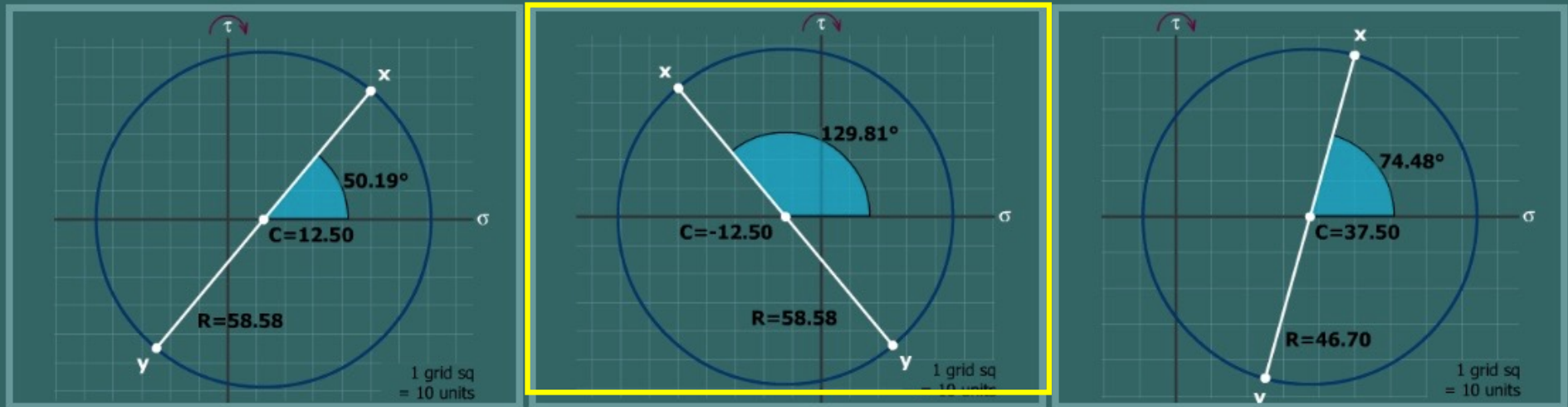
$$\sigma_{ave} = \frac{-50 + 25}{2} = -12.5$$

$$x - axis = (\sigma_x, \tau_{xy}) = (-50, -45)$$

Mohr's circle A

Mohr's circle B

Mohr's circle C



One of the stress elements shown is correct for this Mohr's circle. Click on the correct stress element.

$$\text{A: } \sigma_{ave} = \frac{40-30}{2} = 5$$

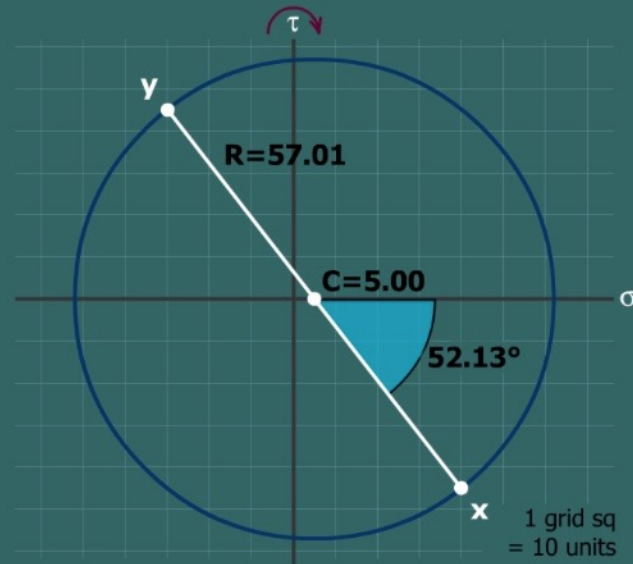
$$x\text{-axis} = (\sigma_x, \tau_{xy}) = (40, 45)$$

$$\text{B: } \sigma_{ave} = \frac{-40-30}{2} = -35$$

$$x\text{-axis} = (\sigma_x, \tau_{xy}) = (-40, -30)$$

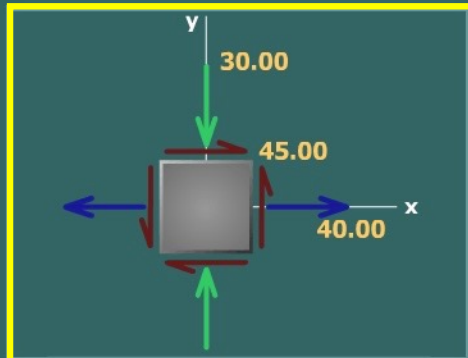
$$\text{C: } \sigma_{ave} = \frac{40+30}{2} = 35$$

$$x\text{-axis} = (\sigma_x, \tau_{xy}) = (40 + 30)$$

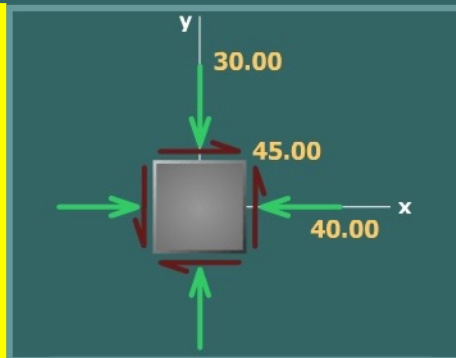


Q4

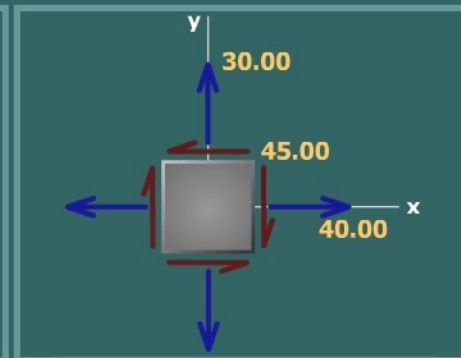
Stress element A



Stress element B



Stress element C



One of the stress elements shown is correct for this Mohr's circle. Click on the correct stress element.

$$\text{A: } \sigma_{ave} = \frac{45-15}{2} = 15$$

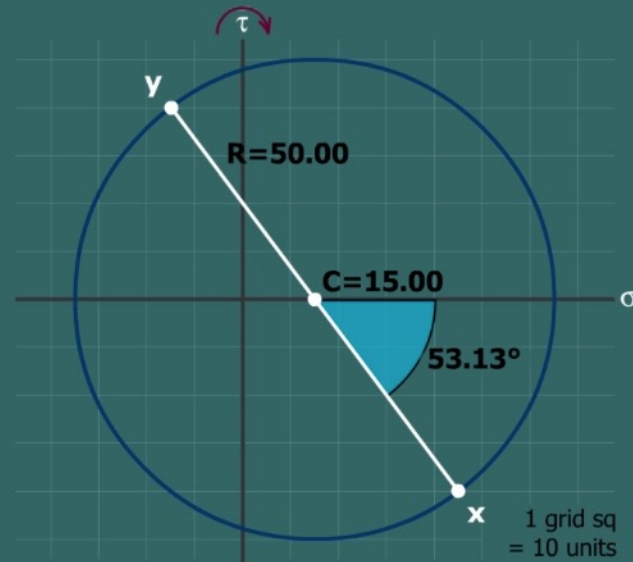
$$x - \text{axis} = (\sigma_x, \tau_{xy}) = (45, 40)$$

$$\text{B: } \sigma_{ave} = \frac{45+15}{2} = 30$$

$$x - \text{axis} = (\sigma_x, \tau_{xy}) = (45, -40)$$

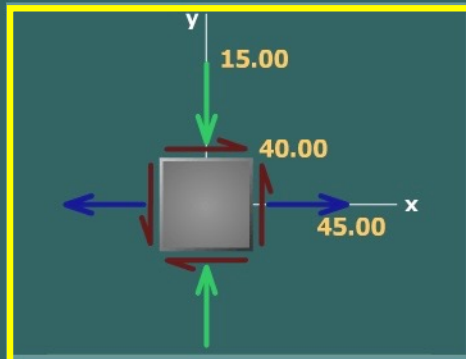
$$\text{C: } \sigma_{ave} = \frac{-45+15}{2} = -15$$

$$x - \text{axis} = (\sigma_x, \tau_{xy}) = (-45, 40)$$

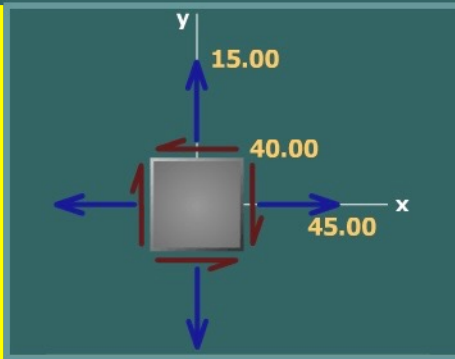


Q5

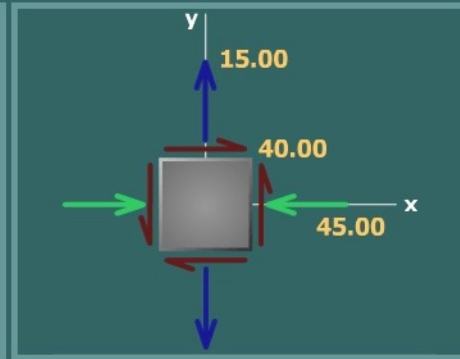
Stress element A



Stress element B



Stress element C



One of the stress elements shown is correct for this Mohr's circle. Click on the correct stress element.

$$\text{A: } \sigma_{ave} = \frac{35-25}{2} = 5$$

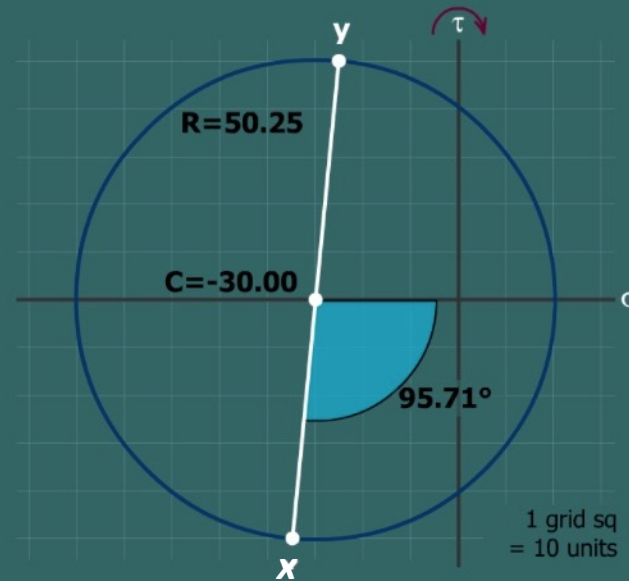
$$x - \text{axis} = (\sigma_x, \tau_{xy}) = (35, 50)$$

$$\text{B: } \sigma_{ave} = \frac{-25-35}{2} = -30$$

$$x - \text{axis} = (\sigma_x, \tau_{xy}) = (-25, 50)$$

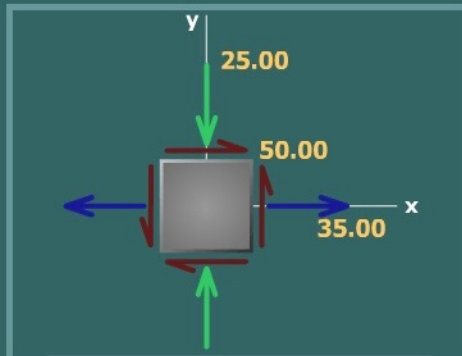
$$\text{C: } \sigma_{ave} = \frac{-35-25}{2} = -30$$

$$x - \text{axis} = (\sigma_x, \tau_{xy}) = (-35, 50)$$

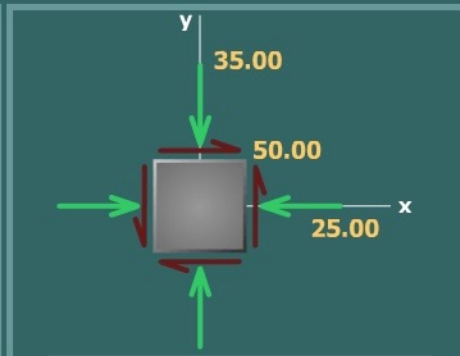


Q6

Stress element A



Stress element B



Stress element C

