

$$1) 23^\circ 45' + 66^\circ 15' = 90^\circ$$

$$AB = 2 \cdot 66^\circ 15'$$

$$AB = 132^\circ 30'$$

$$\hat{APB} = AB/2$$

$$\hat{APB} = 132^\circ 30'/2 = 66^\circ 15'$$

letra E

$$2) A\hat{O}B = 40^\circ$$

$$\hat{ADB} = 20^\circ$$

$$\hat{APD} = 20^\circ$$

$$\hat{EPF} = 20^\circ$$

$$\hat{PAD} = 20^\circ - 120^\circ + x = 180$$

$$\hat{PAD} = x = 140^\circ$$

letra E

$$\hat{CAD} = 40$$

$$\hat{CDA} = 2 \cdot 40^\circ = 80^\circ$$

$$3) 3S^\circ = \hat{AB}/2$$

$$x = \hat{AB}/2 = 3S^\circ$$

$$2 + 3S^\circ + 50^\circ = 180^\circ$$

$$x = 180^\circ - 3S^\circ - 50^\circ$$

$$x = 9S^\circ$$

letra A