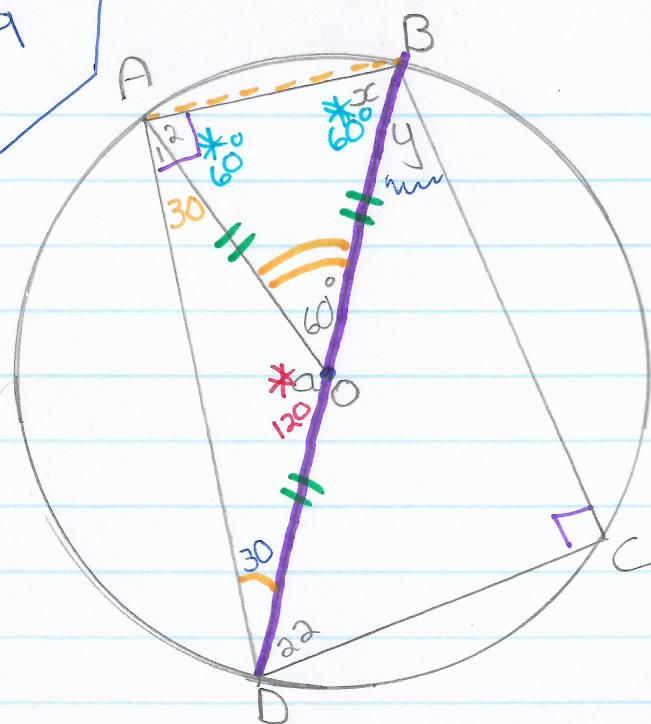




→ What do you see in sketch?
 {O is midpoint}
 (That tells us...)
 - look for diameter
 - make radii =
 - look for $\angle$ at centre
 = $2 \times \angle$ circumference

BD is diameter:

$$\therefore \hat{C} = 90^\circ \quad (\angle \text{ in semi-}\odot)$$

$$\hat{A} = 90^\circ \quad (\angle \text{ in semi-}\odot)$$

$$\hat{D} = 60^\circ \div 2 = 30^\circ$$

($\angle$ at centre = $2 \times$
angle at circumf)

$$\hat{D} = \hat{A}_1 = 30^\circ$$

($\angle$'s opp = sides)
 $OA = OD$ - radii

$$\hat{A}_2 = 90^\circ - 30^\circ = 60^\circ$$

$$\hat{A}_2 = \hat{B}$$

($\angle$'s opp = sides)

$$\therefore x = 60^\circ$$

$$a = 180 - 30 - 30$$

(int $\angle$'s of Δ)

$$a = 120^\circ$$

$$y = 180 - 90 - 22$$

(int $\angle$'s of Δ)

$$y = 68^\circ$$