

Question 1

1.1)

$BC = DC = 24$ units (A line from centre \perp chord)

~~OC^2~~

$OD^2 = OC^2 + CD^2$ (Pythagoras's Theorem)

$$OD^2 = (7)^2 + (24)^2$$

$$OD^2 = 49 + 576$$

$$\sqrt{OD^2} = \sqrt{625}$$

$$OD = 25 \text{ units}$$

$OA = OD$ (radii)

~~$CA = OA = OC$~~

$$CA = 25 - 7$$

$$CA = 18 \text{ units}$$

1.2)

~~1.2.1) $\hat{A} = 60^\circ$ (sum of L^s)~~

1.2.1) $\hat{A} + \hat{B}_1 + \hat{F}_2 = 180^\circ$ (sum of L^s in a Δ)

$$\hat{F}_2 = 90^\circ \text{ (sum of } L \text{ of a str. line)}$$

$$\hat{A} + 30 + 90 = 180$$

$$\hat{A} = 60^\circ$$

$\hat{D}_1 = \hat{A}$ (Given)

$$\therefore \hat{D}_1 = 60^\circ$$

$$\hat{D}_2 = 30 = \hat{B}_1 \text{ (} L^s \text{ in same seg)}$$

$\hat{F}_1 = 90^\circ$ (sum of L^s of a circle lin)

$\hat{E} + \hat{F}_1 + \hat{D}_2 = 180^\circ$ (sum of L^s in a Δ)

$$\hat{E} = 60^\circ$$

1.2.2) $\hat{E} + \hat{BCD} = 180^\circ$ (Opp. int. L of cyclic quad)

$$\hat{BCD} = 180^\circ - 60^\circ$$

$$\hat{BCD} = 120^\circ$$

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Michael Brown



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