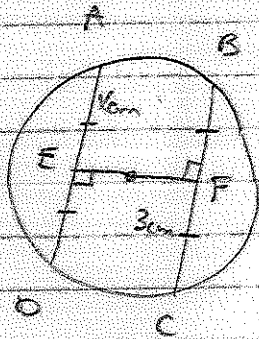


Sautier 83

Fl. a)

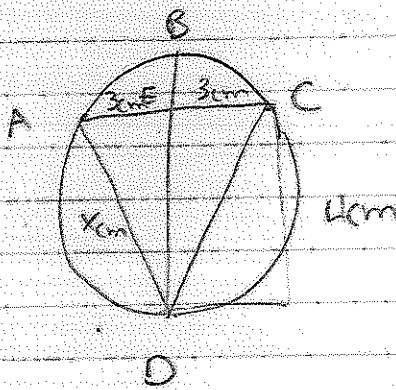


$$\overline{AO} = \overline{BO} \quad (\text{TSC, rayon } \perp \text{ corde})$$

$$\overline{BF} = \overline{FC} \quad \text{" "}$$

$$x = 3\text{cm}$$

b)



$$\overline{AE} = \overline{EC} \quad (\text{TSC, corde } \perp \text{ diamètre})$$

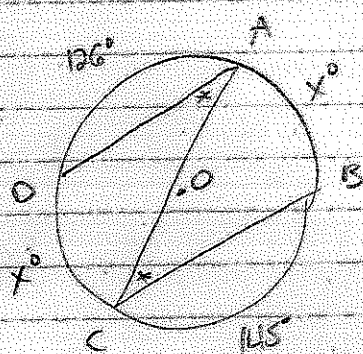
$$4^2 + 3^2 = x^2 \quad (\text{T. Pythagore})$$

$$16 + 9 = x^2$$

$$25 = x^2$$

$$x = 5\text{cm}$$

c)



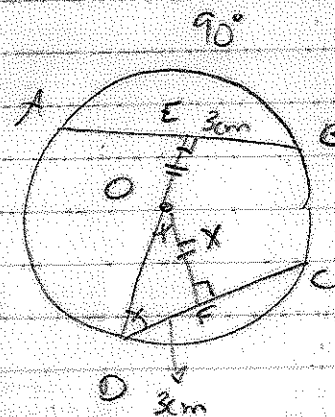
$$\overline{AC} \parallel \overline{BC} \quad (\text{RTDP, } \angle \text{ alternate, int.})$$

$$\widehat{AOB} = x \quad (\text{T.O.C, cordes } \parallel)$$

$$360^\circ - 145^\circ - 126^\circ = 89^\circ$$

$$89^\circ \div 2 = \boxed{44,5^\circ} = x^\circ$$

d)

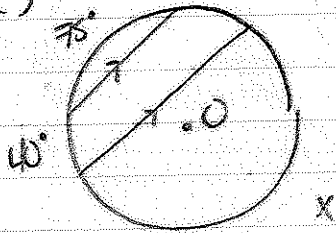


$$\overline{AB} = \overline{DC} \quad (\text{TSC, 2 cordes } \perp \text{ corde})$$

$$\overline{EB} = \overline{DF} = 3\text{cm} \quad (\text{TSC, diamètre } \perp \text{ corde})$$

$$x = 3\text{cm} \quad (\text{RTTE})$$

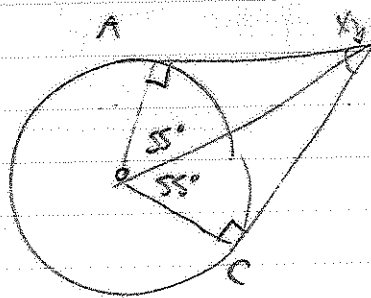
2. a)



$$\widehat{AB} = 40^\circ \text{ (TDC, droites //)}$$

$$X = 360^\circ - 75^\circ - 40^\circ - 40^\circ = 205^\circ$$

b)



$$110^\circ \div 2 = 55^\circ \text{ (TPC, point ext. + 2tg)}$$

$$180^\circ - 55^\circ - 90^\circ = 35^\circ \text{ (TSAT)}$$

$$35^\circ \times 2 = \angle X$$

$$70^\circ = \angle X$$

c) $\angle X = 37^\circ \times 2 = 74^\circ \text{ (TAC, angle inscrit)}$

d) $\angle X = \frac{85^\circ - 35^\circ}{2} = 25^\circ \text{ (TAC, angle ext. of 2 sec.)}$

e) $\angle X = \frac{36^\circ + 49^\circ}{2} \text{ (TAC, deux arcs qui se croisent)}$

$$\angle X = 42,5^\circ$$

f) $\widehat{AB} = 80^\circ \times 2 = 160^\circ \text{ (TAC, angle inscrit)}$

$$\angle X = 360^\circ - 160^\circ - 130^\circ = 70^\circ$$