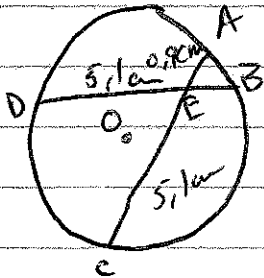


# 4.1 Corrigé Visions pp. 525-528

1.a)

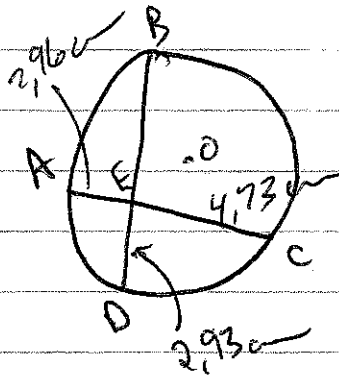


$$0,9 \times 5,1 = 5,1 \times BE \quad (2 \text{ cordes})$$

$$\frac{0,9 \times 5,1}{5,1} = BE$$

$$0,9 \text{ cm} = BE$$

e)

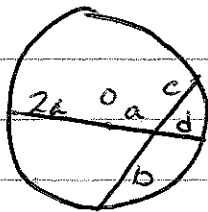


$$2,93 \times BE = 2,96 \times 4,73 \quad (2 \text{ cordes})$$

$$BE = \frac{2,96 \times 4,73}{2,93}$$

$$BE = 4,78 \text{ cm}$$

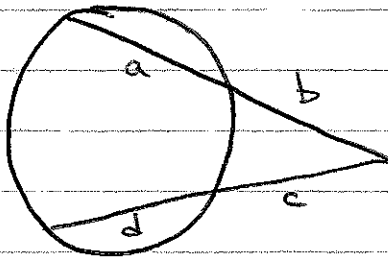
2. b)



$$3ad = cb \quad (2 \text{ cordes})$$

$$a = \frac{cb}{3d}$$

c)

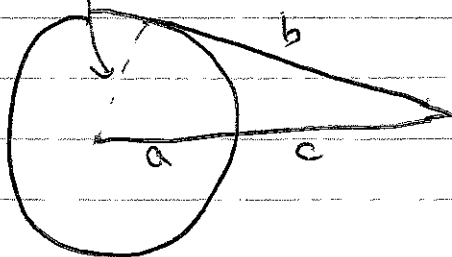


$$\frac{b(a+b)}{b} = \frac{c(c+d)}{b} \quad (2 \text{ s\u00e9cantes})$$

$$a+b = \frac{c(c+d)}{b}$$

$$a = \frac{c(c+d)}{b} - b$$

e)



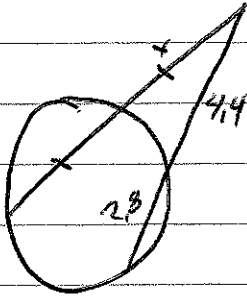
$$a^2 + b^2 = (a+c)^2 \quad (\text{Pyth.})$$

$$a^2 + b^2 = a^2 + 2ac + c^2$$

$$\frac{b^2 - c^2}{2c} = \frac{2ac}{2c}$$

$$a = \frac{b^2 - c^2}{2c}$$

3c)



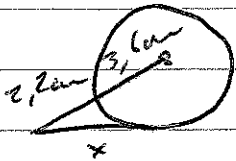
$$x(2x) = 4,4(2,8 = 4,4) \quad (2 \text{ sec.})$$

$$\frac{2x^2}{2} = \frac{31,68}{2}$$

$$x^2 = 15,84$$

$$\boxed{x = 4,0 \text{ cm.}}$$

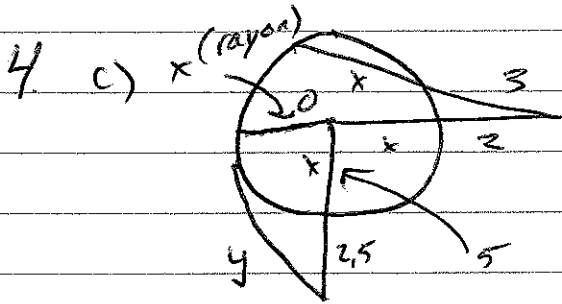
d)



$$x^2 = 2,2 \times 3,6 \quad (\text{tg et sec})$$

$$x^2 = 7,92$$

$$x = 2,8 \text{ cm.}$$



$$2(x+2) = 3(x+3) \quad (2 \text{ sec.})$$

$$4x + 4 = 3x + 9$$

$$-5 = -x$$

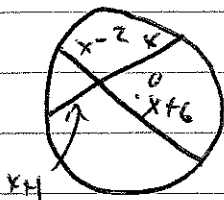
$$5 = x$$

$$y^2 = 2,5(5 + 2,5)$$

$$y^2 = 18,75$$

$$\boxed{y = 4,3 \text{ cm}}$$

e)



$$x(x+1) = (x-2)(x+6) \quad (2 \text{ cordes})$$

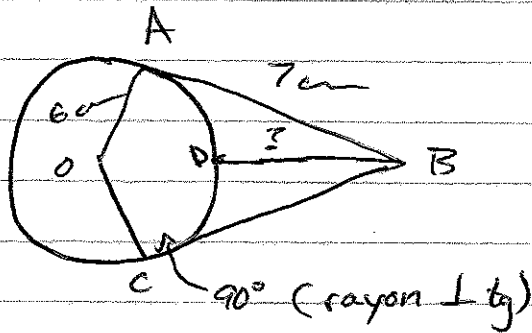
$$\cancel{x^2} + x = \cancel{x^2} - 12 + 6x - 2x$$

$$x = -12 + 4x$$

$$12 = 3x$$

$$\boxed{4 \text{ cm} = x}$$

5. a)



$$OB = x$$

$$6^2 + 7^2 = x^2$$

$$36 + 49 = x^2$$

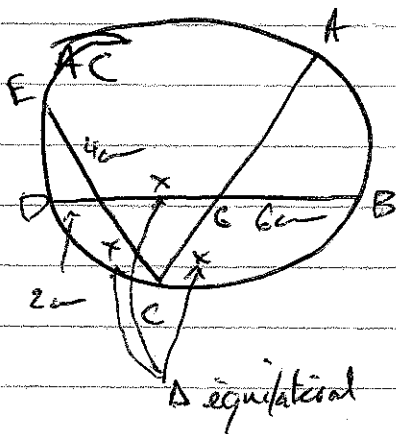
$$85 = x^2$$

$$x = 9,2 \text{ cm}$$

$$DB = 9,2 - 6$$

$$= 3,2 \text{ cm}$$

7 a)



$$4(x) = 2(x+6) \text{ (2 cordes)}$$

$$4x = 2x + 12$$

$$2x = 12$$

$$x = 6$$

$$b) \quad AG = y$$

$$\frac{6(y)}{6} = \frac{6(8)}{6} \text{ (2 cordes)}$$

$$y = 8 \text{ cm}$$