

\*) A et B deux points du plan, distants de 80 mm. (1)

$$\pi A + 2\pi B = 190 \text{ mm.}$$

a) couples  $\pi A$ ,  $\pi B$

$$\pi A = 10 \quad \text{et} \quad \pi B = 90$$

$$\pi A = 20 \quad \text{et} \quad \pi B = 85$$

$$\pi A = 30 \quad \text{et} \quad \pi B = 80$$

$$\pi A = 40 \quad \text{et} \quad \pi B = 75$$

$$\pi A = 50 \quad \text{et} \quad \pi B = 70$$

$$\pi A = 60 \quad \text{et} \quad \pi B = 65$$

$$\pi A = 70 \quad \text{et} \quad \pi B = 60$$

$$\pi A = 80 \quad \text{et} \quad \pi B = 55$$

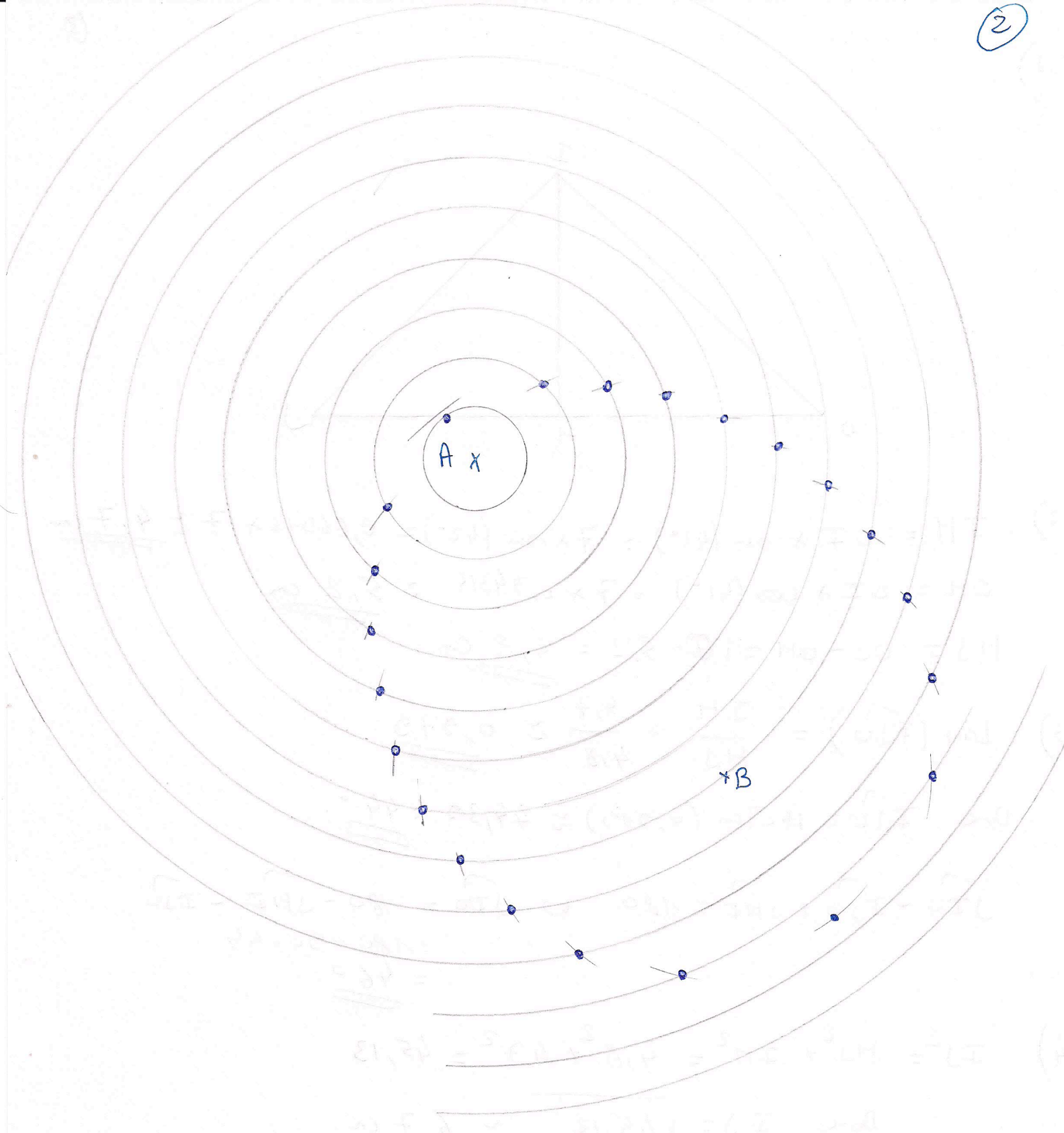
$$\pi A = 90 \quad \text{et} \quad \pi B = 50$$

$$\pi A = 100 \quad \text{et} \quad \pi B = 45$$

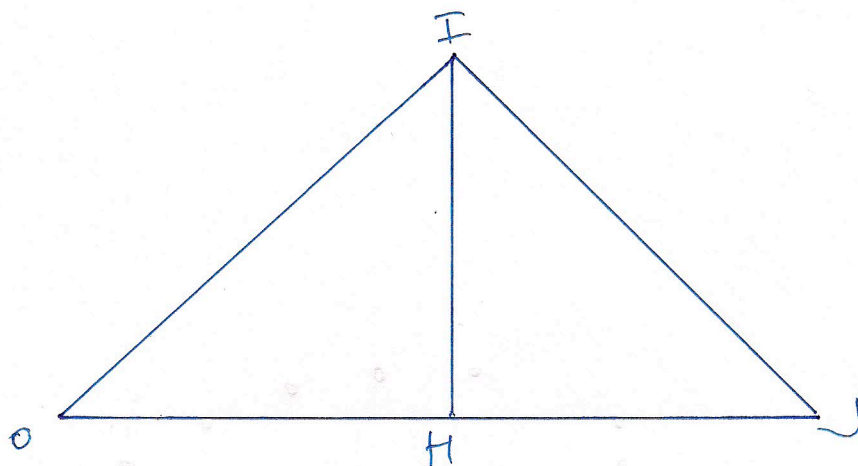
$$\pi A = 110 \quad \text{et} \quad \pi B = 40$$

$$\pi A = 120 \quad \text{et} \quad \pi B = 35$$

$$\pi A = 130 \quad \text{et} \quad \pi B = 30$$



1)



$$2) \quad IH = OI \times \sin(42^\circ) = 7 \times \sin(42^\circ) = 0,66913 \times 7 \approx \underline{\underline{4,7 \text{ cm}}}$$

$$OH = OI \times \cos(42^\circ) = 7 \times 0,74314 \approx \underline{\underline{5,2 \text{ cm}}}$$

$$HJ = OJ - OH = 10 - 5,2 = \underline{\underline{4,8 \text{ cm}}}$$

$$3) \quad \tan(\widehat{IJO}) = \frac{IH}{HJ} = \frac{4,7}{4,8} \approx \underline{\underline{0,979}}$$

$$\text{Donc } \widehat{IJO} = \text{Arctan}(0,979) \approx 44,39 \approx \underline{\underline{44^\circ}}$$

$$\widehat{JIO} + \widehat{IJO} + \widehat{JHI} = 180 \quad \Leftrightarrow \quad \widehat{JIO} = 180 - \widehat{JHI} - \widehat{IJO}$$

$$= 180 - 90 - 44$$

$$= \underline{\underline{46^\circ}}$$

$$4) \quad IJ^2 = HJ^2 + IH^2 = 4,8^2 + 4,7^2 = 45,13$$

$$\text{Donc } IJ = \sqrt{45,13} \approx \underline{\underline{6,7 \text{ cm}}}$$