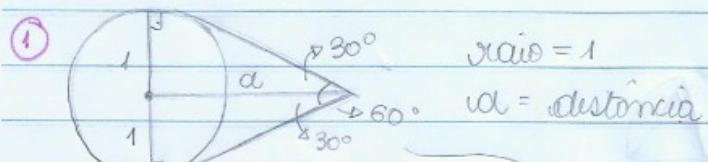


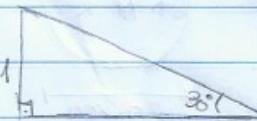
tarefa básica

LUGAR GEOMÉTRICO E PONTOS NOTÁVEIS

DO TRIÂNGULO



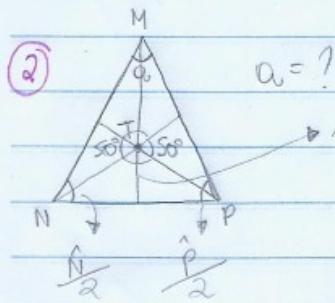
Tangente forma ângulo de
90° graus com o raio.



$$\tan 30^\circ = \frac{1}{d}$$

$$\frac{1}{\sqrt{3}} = \frac{1}{d} \rightarrow d = \sqrt{3}$$

(Alternativa D)



$$130^\circ + \frac{\hat{N}}{2} + \frac{\hat{P}}{2} = 180^\circ$$

$$(\hat{N} + \hat{P}) = 180^\circ - 130^\circ$$

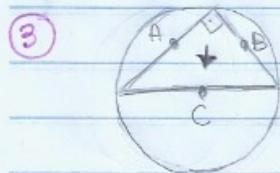
$$\hat{N} + \hat{P} = 50^\circ \cdot 2$$

$$\hat{N} + \hat{P} = 100^\circ$$

$$100^\circ + \alpha = 180^\circ$$

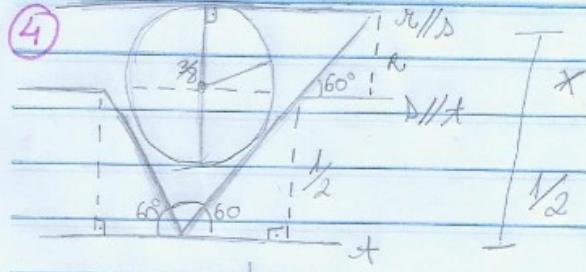
$$\alpha = 80^\circ$$

(Alternativa E)



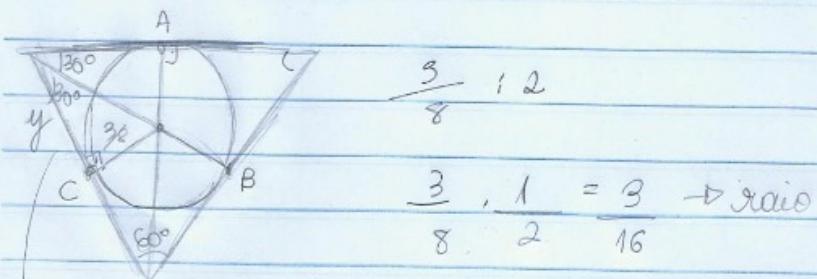
é um retângulo. O diâmetro da circunferência é igual a um lado do triângulo inscrito. Com isso, o ângulo oposto desse lado é um ângulo reto ($= 90^\circ$), sendo, assim, um triângulo retângulo.

(Alternativa B)



$$\begin{aligned} \text{sen } 60^\circ &= \frac{1}{2} : y \\ \sqrt{3} \cdot \frac{y}{2} &= 1 \\ y &= \frac{2}{\sqrt{3}} = \frac{2\sqrt{3}}{3} \\ y &= \frac{\sqrt{3}}{3} \end{aligned}$$

$\left. \begin{array}{l} \frac{\sqrt{3}}{3} + 60^\circ + z = 180^\circ \\ z = 180^\circ - 60^\circ = 120^\circ \end{array} \right\} \text{triângulo equitativo}$

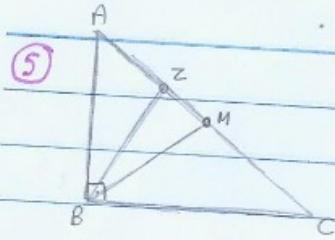


$$\begin{aligned} \tan 30^\circ &= \frac{3}{16} \\ \frac{y}{\sqrt{3}/16} &= \frac{3}{16} \\ y &= \frac{3\sqrt{3}}{16} \end{aligned}$$

$$\begin{aligned} \frac{1}{2} : \frac{\sqrt{3}}{3} &= \frac{1}{2} : \frac{1}{2} \\ \frac{1}{2} : \frac{1}{2} &= \frac{1}{2} : \frac{1}{2} \\ \frac{1}{2} : \frac{1}{2} &= \frac{1}{2} : \frac{1}{2} \end{aligned}$$

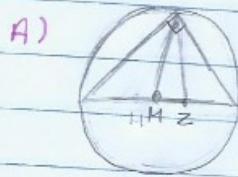
$$\begin{aligned} \cos 30^\circ &= x \\ \frac{\sqrt{3}}{2} &= x \\ \frac{\sqrt{3}}{2} &= x \\ x &= \frac{\sqrt{3}}{2} \cdot \frac{\sqrt{3}}{2} = \frac{3}{4} \end{aligned}$$

(alternativa E)



$M = \text{mediana}$

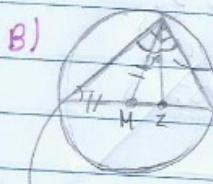
$Z = \text{bisettrice}$



$$M = R$$

$$M = \frac{20}{2}$$

$$M = 10 \text{ cm}$$



$$CM = BM = R$$

$$B = ?$$



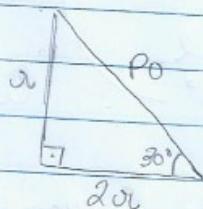
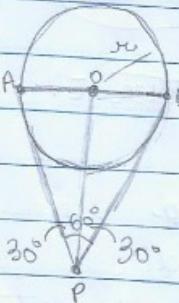
$$20^\circ$$

$$20^\circ + X + 45^\circ = 90^\circ$$

$$X = 90^\circ - 65^\circ$$

$$X = 25^\circ$$

6)



$$\sin 30^\circ = \frac{r}{PO}$$

$$PO$$

$$\frac{1}{2} = \frac{r}{PO}$$

Alternativa c)