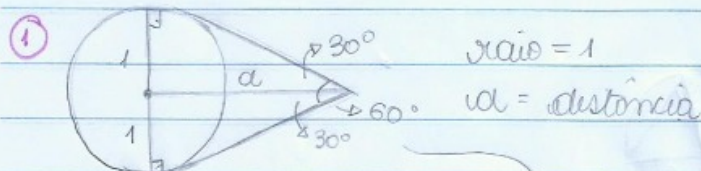


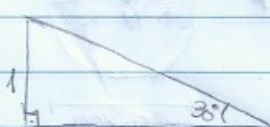
tarefa básica

LUGAR GEOMÉTRICO E PONTOS NOTÁVEIS

DO TRIÂNGULO



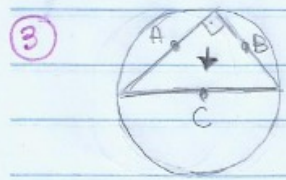
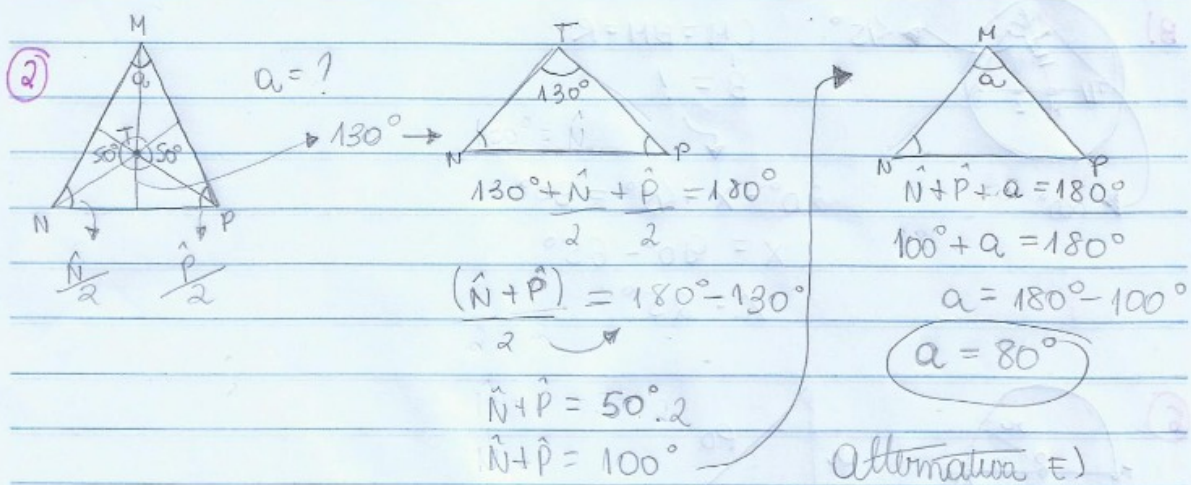
tangente forma ângulo de 90° graus com o raio.



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

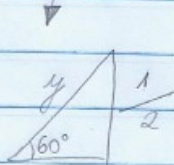
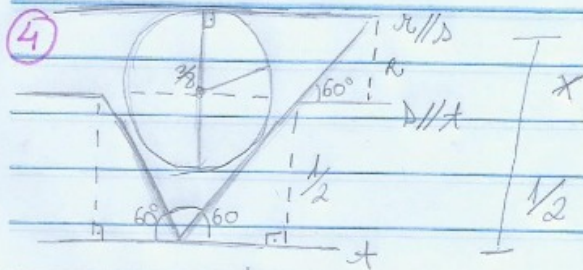
$$\frac{1}{2} = \frac{1}{d} \rightarrow d = 2$$

Alternativa D)



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)

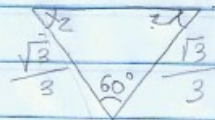


$$\tan 60^\circ = \frac{1}{2} : y$$

$$\frac{\sqrt{3}}{2} y = \frac{1}{2}$$

$$y = \frac{1}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}}$$

$$y = \frac{\sqrt{3}}{3}$$

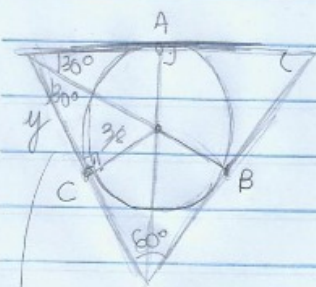


$$60^\circ + z + z = 180^\circ$$

$$2z = 180^\circ - 60^\circ$$

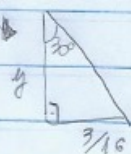
$$z = 120^\circ - 60^\circ$$

2 triângulo equilátero



$$\frac{3}{8} : 2$$

$$\frac{3}{8} \cdot \frac{1}{2} = \frac{3}{16} \rightarrow \text{raio}$$

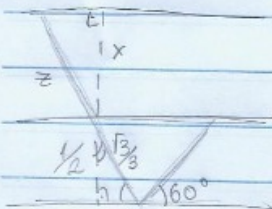


$$\tan 30^\circ = \frac{3/16}{y}$$

$$\sqrt{3}/3 = 3/16$$

$$y = \frac{9}{16} \cdot \sqrt{3} \cdot \frac{\sqrt{3}}{3}$$

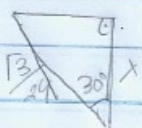
$$y = \frac{3\sqrt{3}}{16} //$$



$$2 \cdot \frac{3\sqrt{3}}{16} : 2$$

$$\frac{3\sqrt{3}}{8}$$

$$z = \frac{3\sqrt{3}}{8} - \frac{\sqrt{3}}{3} = \frac{\sqrt{3}}{24} //$$

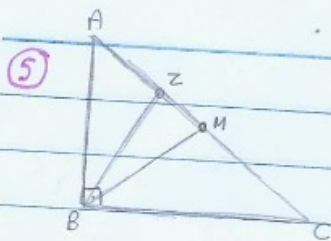


$$\tan 30^\circ = \frac{x}{\sqrt{3}/24}$$

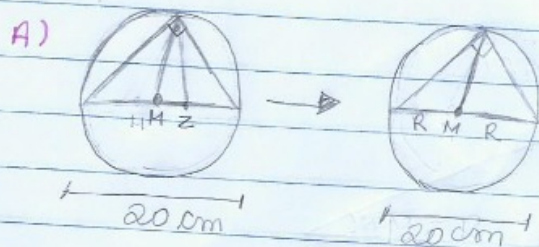
$$\frac{\sqrt{3}}{2} = \frac{x}{\sqrt{3}/24}$$

$$x = \frac{\sqrt{3}}{2} \cdot \frac{\sqrt{3}}{24} \quad x = \frac{3}{2 \cdot 24} \quad x = \frac{1}{16}$$

alternativa E)



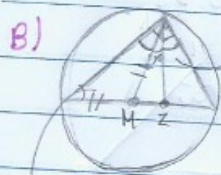
$M = \text{mediuna}$
 $Z = \text{bisectaj}$



$$M = R$$

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

$M = 10 \text{ cm}$



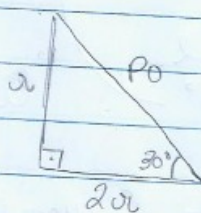
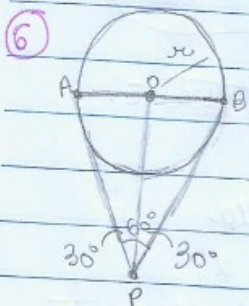
$$CM = BM = R$$

$$\angle B = ?$$

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

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

$$x = 25^\circ$$



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

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

$P_o = 2r$

Alternativa C)