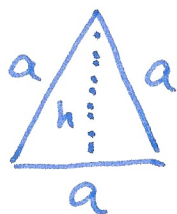


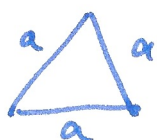
676 a)



$$\begin{aligned} h &= \frac{1}{2}\sqrt{3} \cdot a \\ &= \frac{1}{2}\sqrt{3} \cdot 8,0 \\ &= 4 \cdot \sqrt{3} \\ &= \dots \text{ TR} \end{aligned}$$

$$\begin{aligned} A &= \frac{1}{2} \cdot h \cdot a = \frac{1}{4} \cdot \sqrt{3} \cdot a^2 \\ &= \frac{1}{4} \cdot \sqrt{3} \cdot 8^2 = 32\sqrt{3} = \dots \text{ TR} \end{aligned}$$

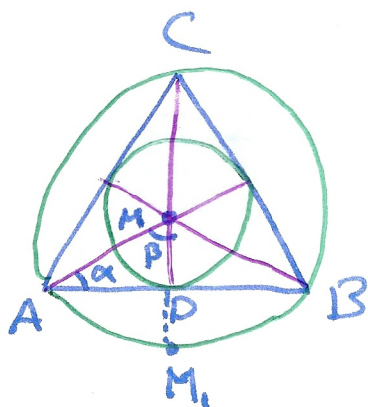
678 a)



Siehe vorige Aufgabe:

$$\begin{aligned} A &= \frac{1}{4}\sqrt{3} \cdot a^2 = \\ &= \frac{1}{4} \cdot (25)^2 \cdot \sqrt{3} \approx 270,6 \text{ cm}^2 \end{aligned}$$

681



ΔAMM_1 ist gleichseitig
weil $\alpha = 30^\circ$ & $\beta = 60^\circ$.

$$\Rightarrow |AM| = |AM_1| = r$$

$$\text{also } \overline{MD} = \frac{1}{2}r$$

$$\text{auch } \overline{CM} = \overline{AM} \Rightarrow h = r + \frac{1}{2}r = \frac{3}{2}r$$

$$\Rightarrow h = \frac{3}{2}r \text{ ergibt } \boxed{r = \frac{2}{3}h}$$

$$\text{aber auch } \rho = \overline{MD} = \frac{1}{2}r \Rightarrow r = 2\rho \vee$$

Zusammenfassend

$$r = 2\rho \text{ \& } r = \frac{2}{3}h = \frac{2}{3} \cdot \frac{1}{2}\sqrt{3} \cdot a = \frac{a}{3}\sqrt{3} = \frac{a}{\sqrt{3}}$$

$$\text{\& } \rho = \frac{1}{2}r = \frac{a}{2\sqrt{3}}$$

Gut verstehen!
Fasse in eigenen Worten!