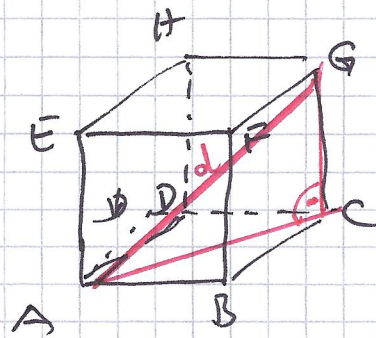


24.11.2020

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geg:  $d = 8 \text{ cm}$

Ges.:  $a$



$$d = a\sqrt{3} \quad | :\sqrt{3}$$

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

$$a = \frac{d \cdot \sqrt{3}}{3}$$

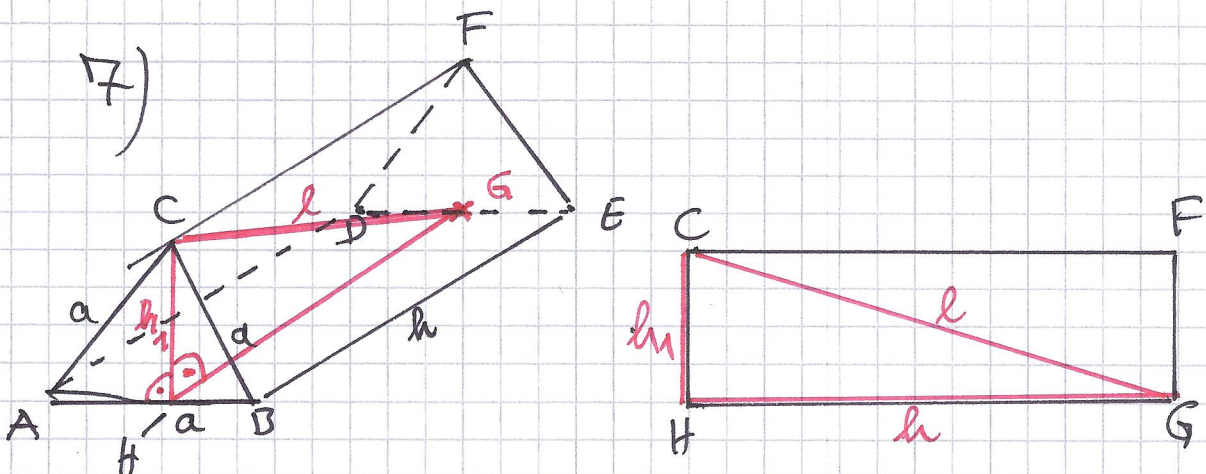
$$a = \frac{1}{3} d \sqrt{3}$$

$$d = 8 \text{ cm} \Rightarrow a = \frac{1}{3} \cdot 8 \text{ cm} \sqrt{3}$$

$$a \approx 4,6 \text{ cm}$$

$$d = 2\sqrt{3} \text{ m} \Rightarrow a = \frac{1}{3} \cdot 2\sqrt{3} \text{ m} \cdot \sqrt{3}$$

$$a = 2 \text{ m}$$



$$l^2 = h_1^2 + h^2$$

$h_1$  ist die Höhe im  $\triangle ABC$

$$\Rightarrow h_1 = \frac{a}{2} \sqrt{3} \Rightarrow h_1^2 = \frac{3}{4} a^2$$



$$\Rightarrow l^2 = \frac{3}{4}a^2 + h^2$$

$$l = \sqrt{\frac{3}{4}a^2 + h^2}$$

$$a = 5 \text{ cm}, h = 10 \text{ cm}$$

$$\Rightarrow l = \sqrt{\frac{3}{4} \cdot 25 \text{ cm}^2 + 100 \text{ cm}^2}$$

$$l \approx 10,9 \text{ cm}$$

HA S. 55/14a bed Freitag