

gef: $A = 450 \text{ cm}^2$
 $a = 36 \text{ cm}$

ges b, c, p, q, h

Lös.!

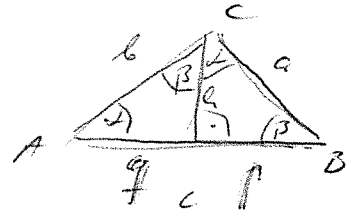
① $A = \frac{1}{2} a \cdot b$

$$b = \frac{2A}{a} = \frac{2 \cdot 450 \text{ cm}^2}{36 \text{ cm}} = \underline{\underline{25 \text{ cm}}}$$

② $a^2 + b^2 = c^2$

$$c = \sqrt{a^2 + b^2}$$

$$c = \sqrt{36^2 + 25^2} \approx \underline{\underline{43,83 \text{ cm}}}$$



③ $a^2 = c \cdot p$ $b^2 = c \cdot q$

$$p = \frac{a^2}{c} \qquad q = \frac{b^2}{c}$$

$$p = \frac{36^2}{43,83} \qquad q = \frac{25^2}{43,83}$$

$$\underline{\underline{p = 29,6 \text{ cm}}} \qquad \underline{\underline{q = 14,3 \text{ cm}}}$$

④ $a^2 = h^2 + p^2$

$$h^2 = a^2 - p^2$$

$$h = \sqrt{36^2 - 29,6^2}$$

$$\underline{\underline{h = 20,49 \text{ cm}}}$$

geg: $a = 4,2 \text{ cm}$ ges q ; b ; c , A , h
 $p = 3 \text{ cm}$

Lös: $h = \sqrt{a^2 - p^2}$
 $h = \sqrt{4,2^2 - 3^2} \approx \underline{\underline{2,98 \text{ cm}}}$

$$a^2 = c \cdot p$$

$$c = \frac{a^2}{p} = \frac{4,2^2}{3} = \underline{\underline{5,88 \text{ cm}}}$$

$$c^2 = a^2 + b^2$$

$$b^2 = c^2 - a^2$$

$$b = \sqrt{5,88^2 - 4,2^2} \approx 4,12 \text{ cm}$$

$$c = p + q \rightarrow q = c - p$$

$$q = 5,88 \text{ cm} - 3 \text{ cm}$$

$$\underline{\underline{q = 2,88 \text{ cm}}}$$

$$A = \frac{1}{2} a \cdot b = \frac{1}{2} \cdot 4,2 \cdot 4,12$$

$$\underline{\underline{A \approx 8,65 \text{ FE}}}$$

