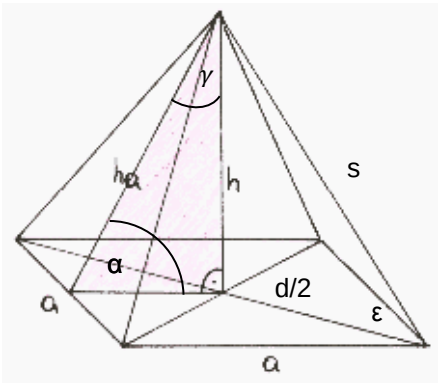
Lösung Beispiel 709.) c.)



s = 8,5 cm h = 7,7 cm

$\sin(\varepsilon) = \frac{h}{s}$ → $\varepsilon = \sin^{-1}\left(\frac{7,7}{8,5}\right) \approx 64,94°$

$\frac{d}{2} = \sqrt{s^2 - h^2}$ → $\frac{d}{2}$ = 3,6 cm → d = 7,2 cm

In jedem Quadrat gilt $d = a\sqrt{2}$:

$a = \frac{d}{\sqrt{2}}$ → $a \approx 5,09$ cm

$\delta = \sphericalangle(s,a)$

$\cos(\delta) = \frac{\frac{a}{2}}{s}$ → $\delta = \cos^{-1}\left(\frac{2,55}{8,5}\right) \approx 72,57°$