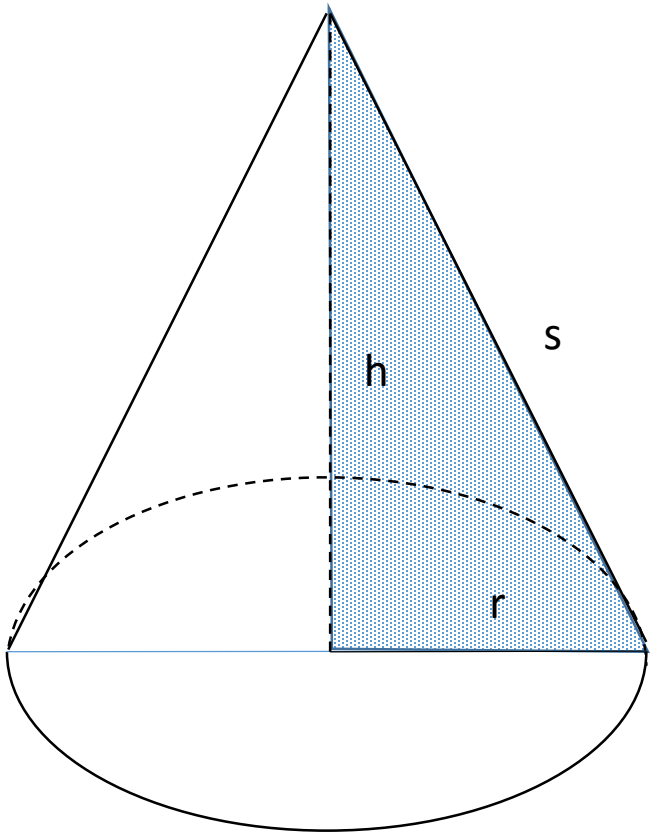
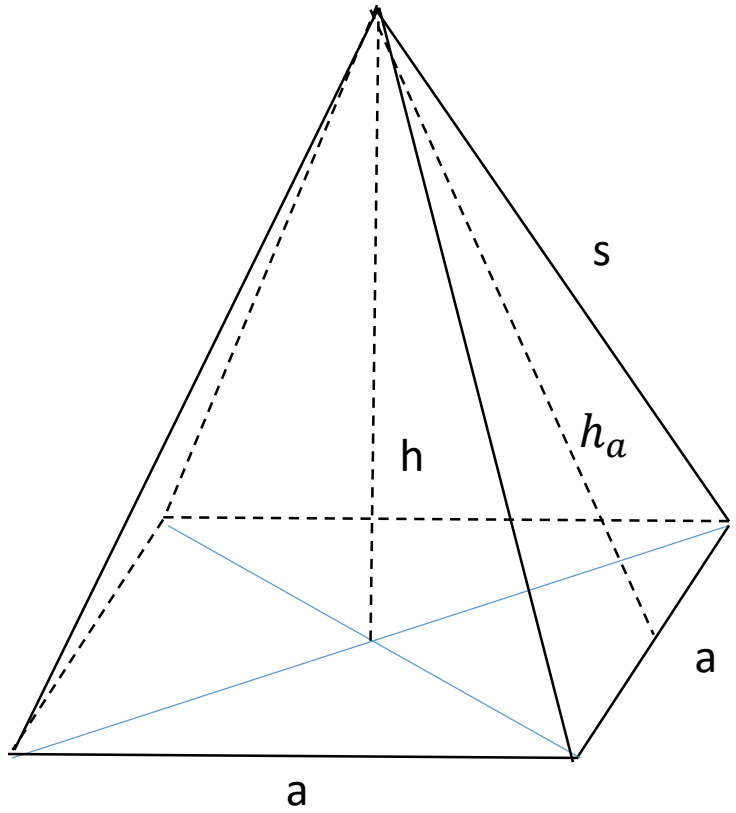
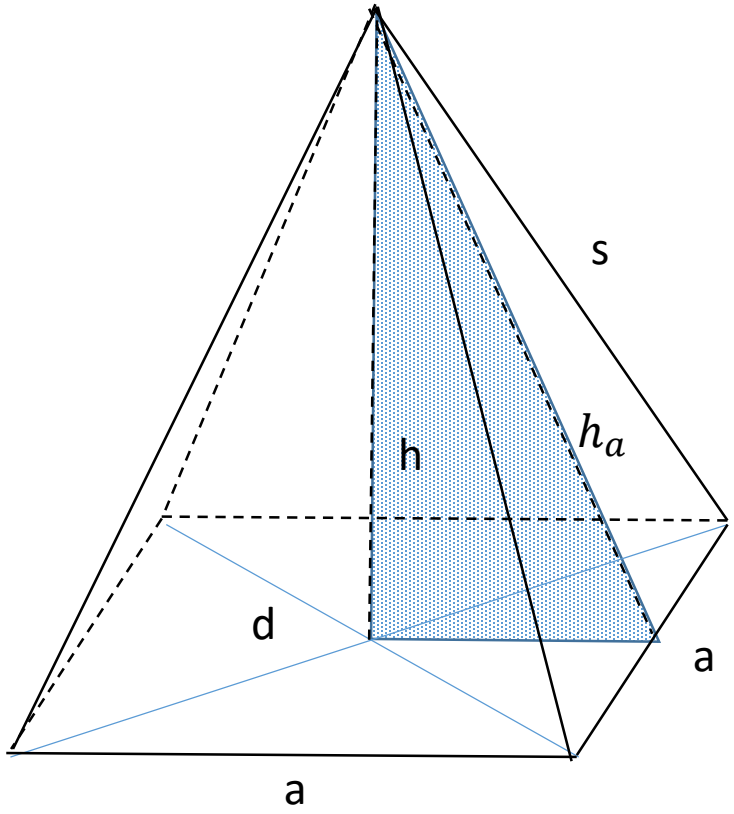
Pythagoras in Kegel und Pyramide



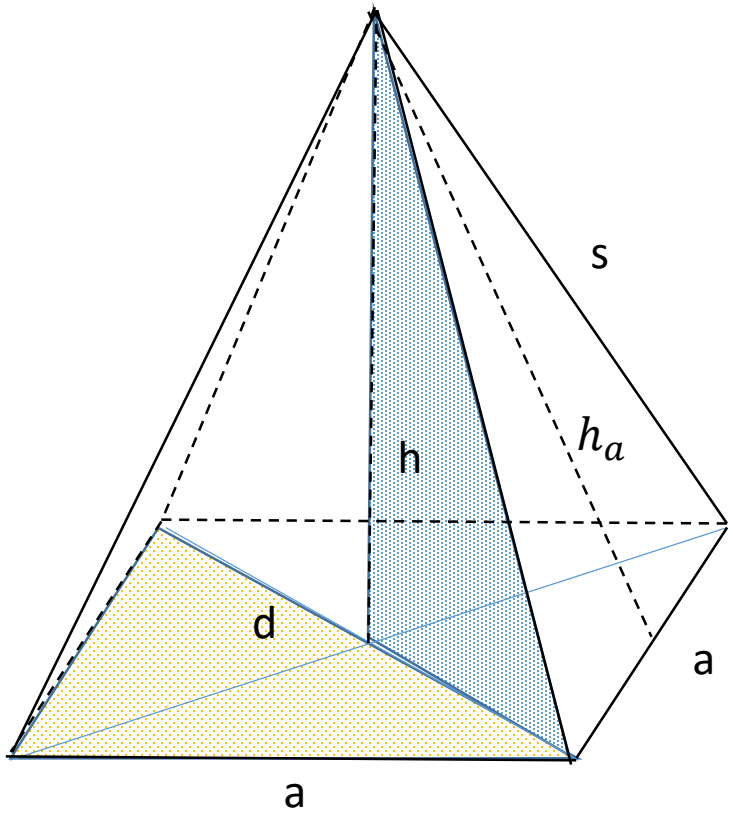
$$s^2 = h^2 + r^2$$



Quadratische Pyramide

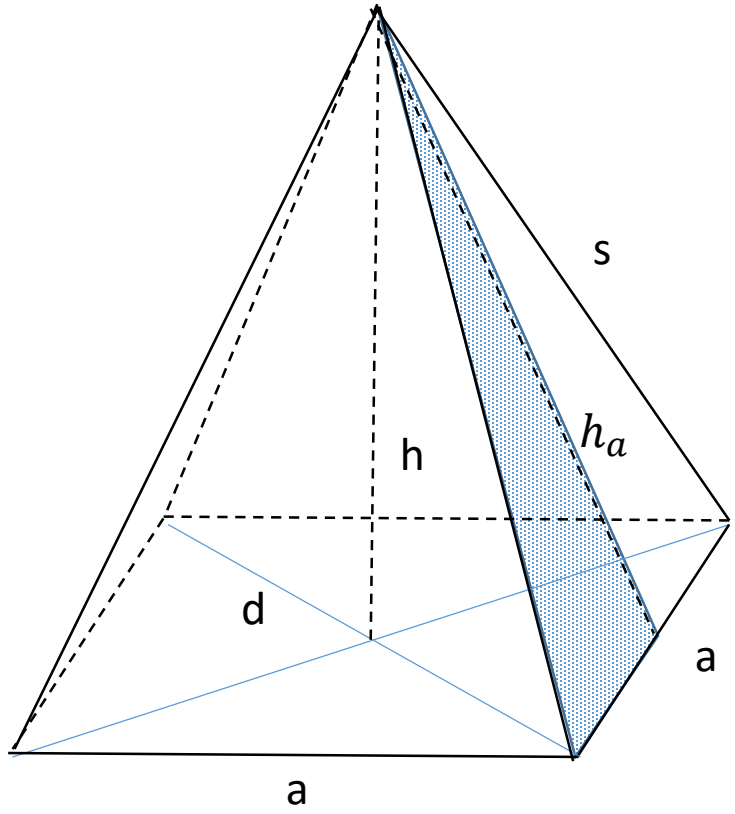


$$h_a^{\,2} = h^2 + \left(\frac{a}{2}\right)^2$$



$$s^2 = h^2 + \left(\frac{d}{2}\right)^2$$

$$d^2 = a^2 + a^2 = 2 \cdot a^2$$



$$s^2 = h_a^{\,2} + \left(\frac{a}{2}\right)^2$$