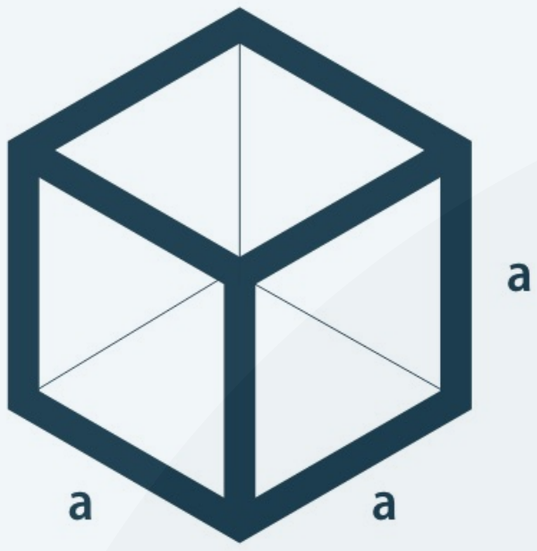
Formelsammlung

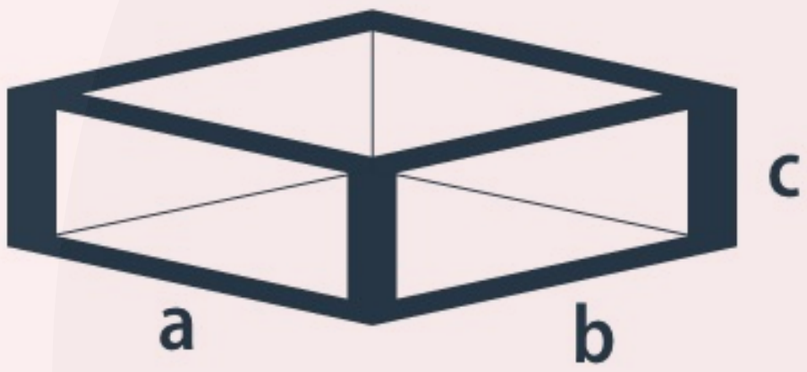
KÖRPER

Würfel



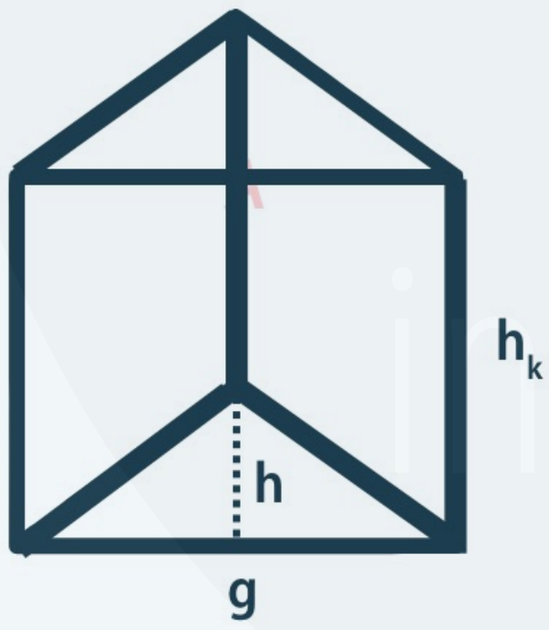
$$V = a^3$$
$$O = 6a^2$$

Quader



$$V = a \cdot b \cdot c$$
$$O = 2ab + 2bc + 2ac$$

Prisma



$$V = G \cdot h_k$$
$$O = 2G + M$$

Zylinder

$$V = r^2 \cdot \pi \cdot h$$
$$O = 2 \cdot \pi \cdot r^2 + 2 \cdot \pi \cdot r \cdot h$$

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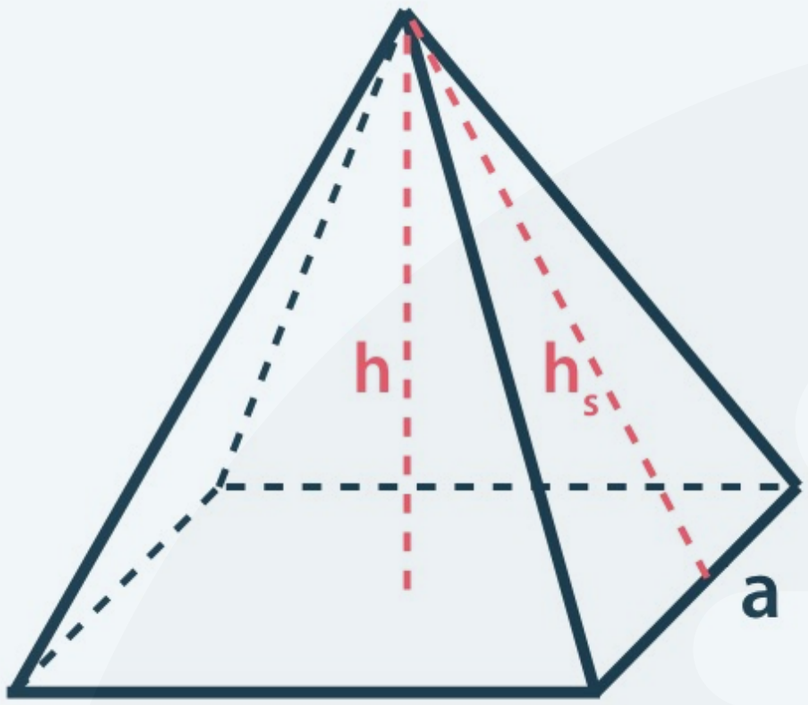
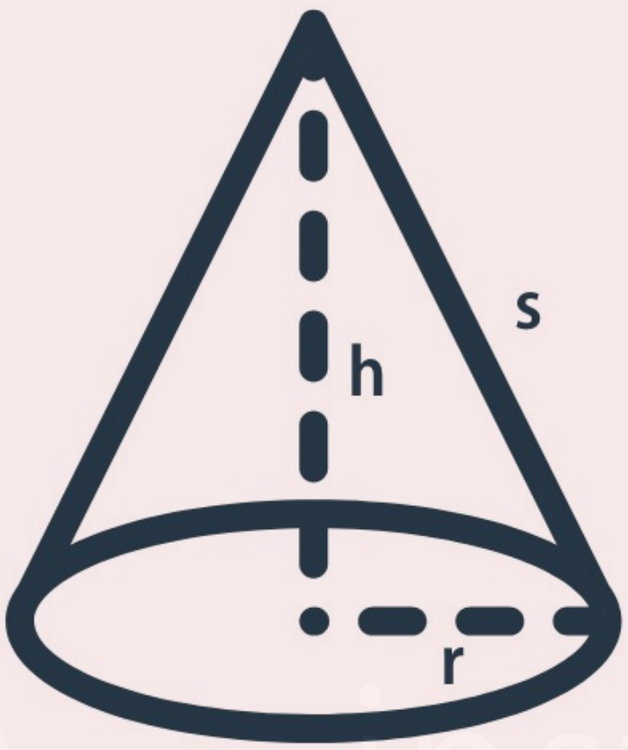


quadratische Pyramide

$$V = \frac{1}{3} \cdot a^2 \cdot h$$

$$O = a^2 + 2 \cdot a \cdot h_s$$



Kegel

$$V = \frac{r^2 \cdot \pi \cdot h}{3}$$

$$O = \pi \cdot r^2 + \pi \cdot r \cdot s$$

Kugel

$$V = \frac{4 \cdot r^3 \cdot \pi}{3}$$

$$O = 4 \cdot \pi \cdot r^2$$