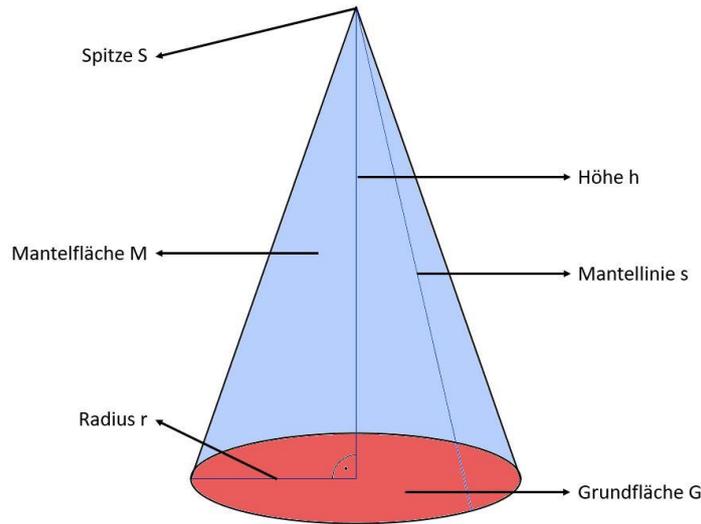
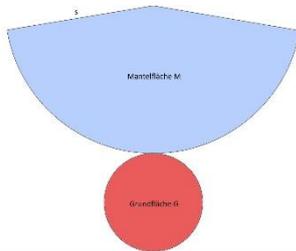


Der Kegel – Formelsammlung



Mantelfläche:

$$M = r \cdot \pi \cdot s$$



Oberfläche:

$$O = G + M$$

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

Oberfläche – Umkehraufgaben:

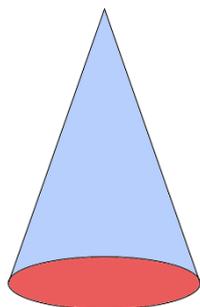
$$s = \frac{O - r^2 \cdot \pi}{r \cdot \pi}$$

$$r = -\left(\frac{s}{2}\right) + \sqrt{\frac{s^2}{4} + \frac{O}{\pi}}$$

Volumen:

$$V = \frac{G \cdot h}{3}$$

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



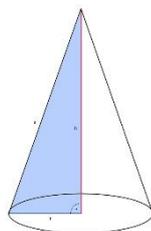
Volumen – Umkehraufgaben:

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

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

Körperhöhe:

$$h = \sqrt{s^2 - r^2}$$



Mantellinie:

$$s = \sqrt{r^2 + h^2}$$

