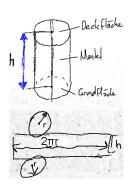
Kreisyzlinder



Mantelfläche:

 $M = h * 2\pi r$

Grundfläche

 $G = \pi r^2$

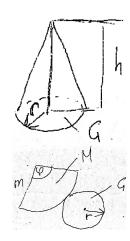
Gesamte Fläche:

Kreiskegel

S = M + 2G

Volumen:

V = G * h



Mantelfläche:

 $M = \pi r m$

Gesamtfläche:

 $S = \pi r(r+m)$

Volumen:

 $V = \frac{1}{3}Gh = \frac{\pi}{3}r^2h$

Relationen

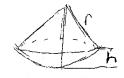
 $\widehat{\phi} = \frac{2\pi r}{m}$

Kugel

Ganze Kugel

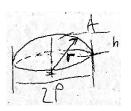
 $V = \frac{4\pi}{3}r^3$ $S=4\pi r^2$

4.2 Kugelsektor



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

Kugelsegment



$$V = \frac{\pi}{3}h^{2}(3r - h)$$
$$V = \frac{pi}{6}h(3\rho^{2} + h^{2})$$

 $S = A + \pi \rho^2$

 $A = 2\pi rh$

1 von 1

Kegelstumpf



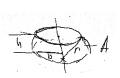
Der gerade Kegelstumpf

 $V = \frac{\pi}{3}h(r^2 + R^2 + Rr)$

Mantelfläche

 $M = \pi m(r+R)$

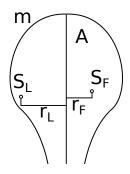
Kugelschicht



 $V = \frac{\pi}{6}h(3a^2 + b^2 + h^2)$

$S = A + \pi(a^2 + b^2)$ $A = 2\pi rh$

Guldnische Regeln



 $V = 2\pi r_F A$

 $M = 2\pi r_L m$

Flächenschwerpunkt Dreieck

$$x_S = \frac{x_1 + x_2 + x_3}{3}$$
$$y_S = \frac{y_1 + y_2 + y_3}{3}$$

Ähnliche Körper

