

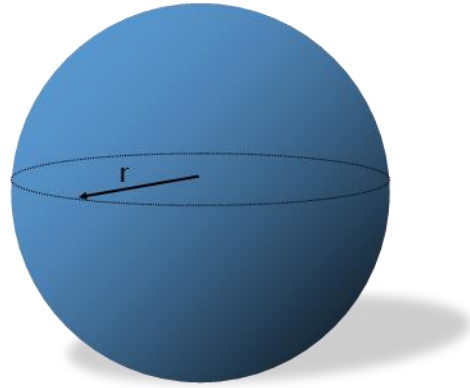
Kugle

$O = \text{Overflade areal}$

$V = \text{Volume}$

$r = \text{radius}$

$d = \text{diameter}$



$$r = \sqrt{\frac{O}{4 \cdot \pi}}$$

$$r = \sqrt[3]{V \cdot \frac{3}{4 \cdot \pi}}$$

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

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

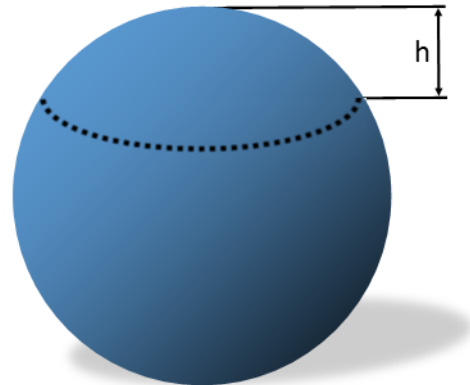
Kugle afsnit (kalot)

$$O = 2 \cdot \pi \cdot r \cdot h$$

$$V = \pi \cdot r^2 \cdot \left(r - \frac{h}{3} \right)$$

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

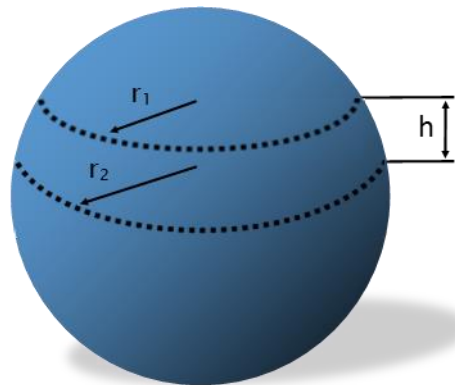
(a = Afsnittets radius)



Kugle bælte

$$O = 2 \cdot \pi \cdot r \cdot h$$

$$V = \frac{1}{6} \cdot \pi \cdot h \cdot (3 \cdot r_1^2 + 3 \cdot r_2^2 + h^2)$$



Kugle udsnit

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

$$V = \frac{\pi}{6} \cdot d^2 \cdot h$$

