

Formulas geometry

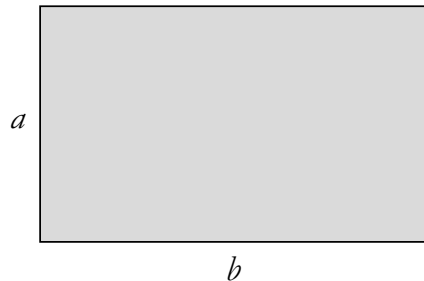
Rectangle

Area:

$$A = a \times b$$

Round:

$$R = 2 \times a + 2 \times b$$



Triangle

Round:

$$R = a + b + c$$

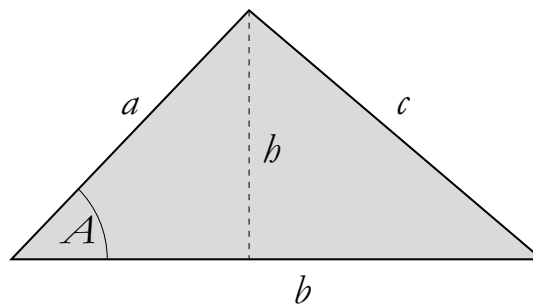
Area:

$$\text{Area} = \frac{1}{2} \times h \times b$$

$$\text{Area} = \frac{1}{2} a \times b \times \sin A$$

$$\text{Area} = \sqrt{s(s-a)(s-b)(s-c)}$$

$$s = \frac{1}{2}(a + b + c)$$



Circle

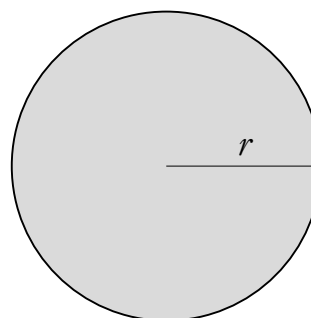
Area:

$$A = \pi \times r^2$$

Round:

$$R = 2 \times \pi \times r$$

$$\pi = 3,14$$



Regular box

Length a

Height b

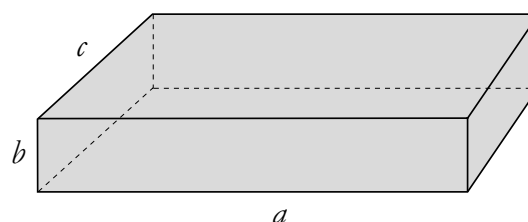
Wide c

Volume:

$$V = a \times b \times c$$

Surface:

$$S = 2 \times (a \times b + a \times c + b \times c)$$



Formulas geometri

Ball with radius r

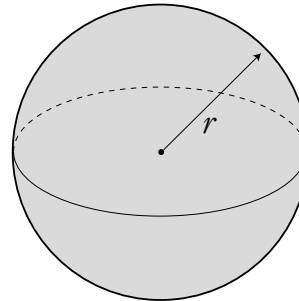
Volume:

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

Surface:

$$S = 4 \times \pi \times r^2$$

$$\pi = 3,14$$



Rectangular cylinder

with radius r & height h

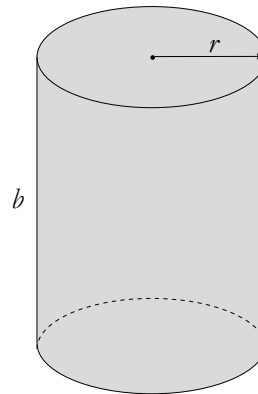
$$\pi = 3,14$$

Volume:

$$V = \pi \times r^2 \times h$$

Bending surface:

$$S = 2 \times \pi \times r \times h$$



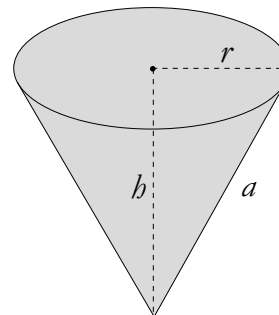
Cone

Volume:

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

Bending surface:

$$S = \pi \times r \times \sqrt{r^2 + h^2} = \pi \times r \times a$$



Truncated cone

Volume:

$$V = \frac{1}{3} \times \pi \times h \times (a^2 + a \times b + b^2)$$

Bending surface:

$$S = \pi \times (a+b) \times \sqrt{h^2 + (b-a)^2} = \pi \times (a+b) \times c$$

