Formulas geometry

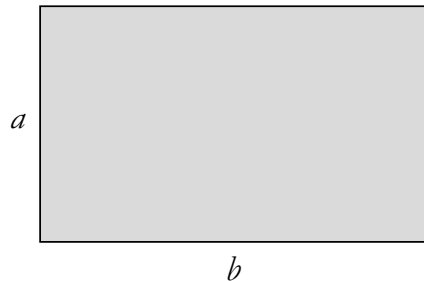## Rectangle

Area:
$A = a \times b$

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

Triangle

Round:
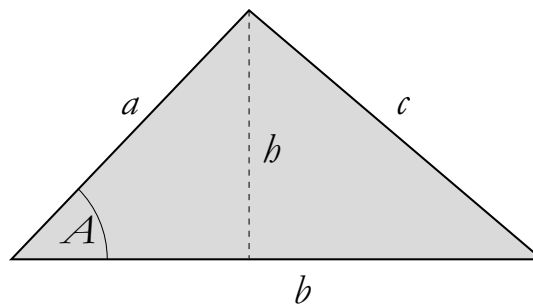$R = a + b + c$

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

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

$Area = \sqrt{s\,(s - a)\,(s - b)\,(s - c)}$
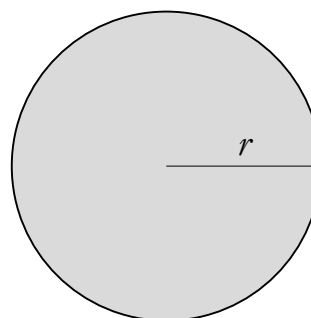
$s = \frac{1}{2}\,(a + b + c)$

Circle

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

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

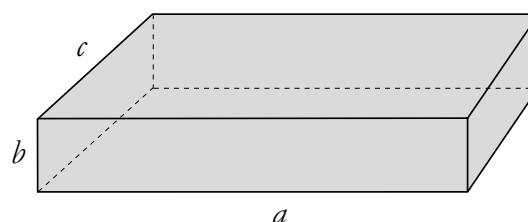$\pi = 3{,}14$

Regular box

Lenght a

Height b

Wide c

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

Surface:
$S = 2 \times (a \times b + a \times c + b \times c)$
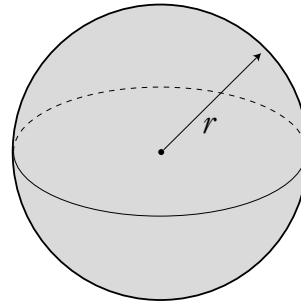
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Formulas geometri

Ball with radius r

Volume:

$V = 4/3 \times \pi \times r^3$

Surface:

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

$\pi = 3,14$

Rectangular cylinder

with radius r & height h
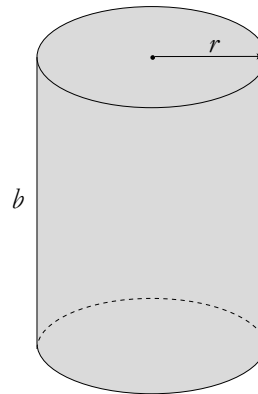
$\pi = 3,14$

Volume:

$V = \pi \times r^2 \times h$
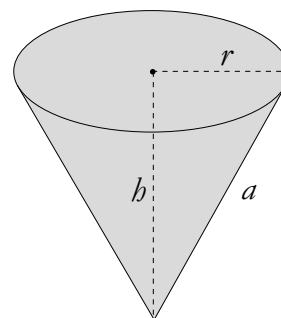
Bending surface:

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

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:

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