

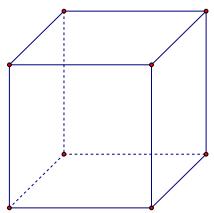
Kvadar

$$O = 2ab + 2ac + 2bc$$

$$D^2 = a^2 + b^2 + c^2$$

$$V = abc$$

a, b i c su duljine bridova kvadra



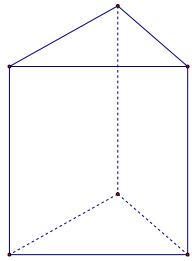
Kocka

$$O = 6a^2$$

$$d = a\sqrt{2}$$

$$V = a^3$$

$$D = a\sqrt{3}$$



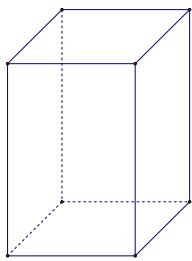
Pravilna
trostrana
prizma

$$B = \frac{a^2 \sqrt{3}}{4} \quad P = 3ah$$

$$O = \frac{a^2 \sqrt{3}}{2} + 3ah$$

$$V = \frac{a^2 \sqrt{3} \cdot h}{4}$$

Priredio: Aleksandar Jerosimić



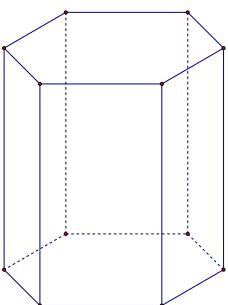
Pravilna
četverostrana
prizma

$$B = a^2 \quad P = 4ah$$

$$O = 2a^2 + 4ah$$

$$V = a^2 h$$

$$P_{dp} = a\sqrt{2} \cdot h$$



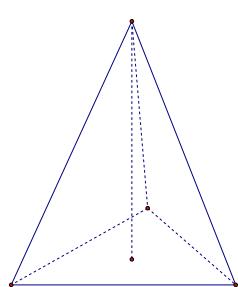
Pravilna
šesterostрана
prizma

$$B = \frac{3a^2 \sqrt{3}}{2} \quad P = 6ah$$

$$O = 3a^2 \sqrt{3} + 6ah$$

$$V = \frac{3a^2 \sqrt{3} \cdot h}{2}$$

$$P_{dp} = 2ah$$



Pravilna
trostrana
piramida

$$B = \frac{a^2 \sqrt{3}}{4} \quad P = \frac{3av_a}{2}$$

$$O = \frac{a^2 \sqrt{3}}{4} + \frac{3av_a}{2}$$

$$V = \frac{a^2 \sqrt{3} \cdot h}{12}$$

$$b^2 = v_a^2 + \left(\frac{a}{2}\right)^2$$

$$b^2 = h^2 + \left(\frac{a\sqrt{3}}{3}\right)^2$$

$$v_a^2 = h^2 + \left(\frac{a\sqrt{3}}{6}\right)^2$$

B = površina baze

P = površina pobočja (ili površina plašta)

O = oplošje

V = obujam (volumen)

d = duljina dijagonale kvadrata

D = duljina prostorne dijagonale kocke (ili kvadra)

O_B = opseg baze

P_{dp} = površina dijagonalnog presjeka

P_{op} = površina osnog presjeka

P_{gk} = površina glavnog kruga

a = duljina osnovnog brida (brida baze)

b = duljina pobočnog (bočnog) brida

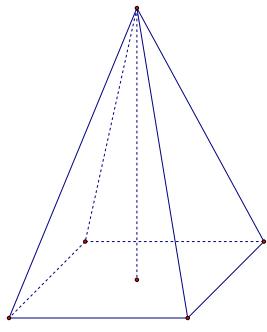
h = duljina visine

v_a = duljina visine pobočke

r = duljina polumjera (radijusa)

s = duljina izvodnice

O_{gk} = opseg glavnog kruga



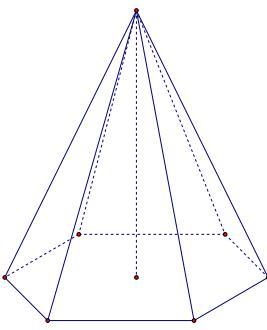
Pravilna
četverostrana
piramida

$$B = a^2 \quad P = 2av_a$$

$$O = a^2 + 2av_a$$

$$V = \frac{a^2 h}{3}$$

$$\begin{aligned} b^2 &= v_a^2 + \left(\frac{a}{2}\right)^2 \\ v_a^2 &= h^2 + \left(\frac{a}{2}\right)^2 \\ b^2 &= h^2 + \left(\frac{a\sqrt{2}}{2}\right)^2 \\ P_{dp} &= \frac{a\sqrt{2} \cdot h}{2} \end{aligned}$$



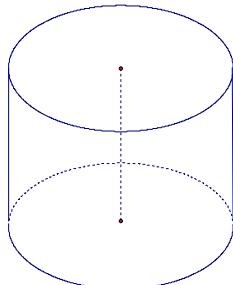
Pravilna
šesterostрана
piramida

$$B = \frac{3a^2 \sqrt{3}}{2} \quad P = 3av_a$$

$$O = \frac{3a^2 \sqrt{3}}{2} + 3av_a$$

$$V = \frac{a^2 \sqrt{3} \cdot h}{2}$$

$$\begin{aligned} b^2 &= v_a^2 + \left(\frac{a}{2}\right)^2 \\ v_a^2 &= h^2 + \left(\frac{a\sqrt{3}}{2}\right)^2 \\ b^2 &= h^2 + a^2 \\ P_{dp} &= ah \end{aligned}$$



Valjak

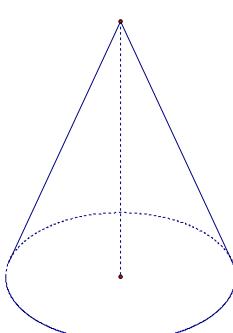
$$B = r^2 \pi \quad P = 2r\pi \cdot h$$

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

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

$$P_{op} = 2rh$$

$$O_B = 2r\pi$$



Stožac

$$B = r^2 \pi \quad P = r\pi \cdot s$$

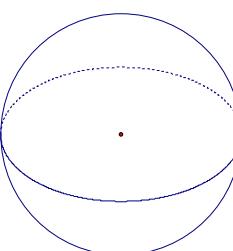
$$O = r^2 \pi + r\pi \cdot s$$

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

$$s^2 = h^2 + r^2$$

$$P_{op} = rh$$

$$O_B = 2r\pi$$



Kugla

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

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

$$P_{gk} = r^2 \pi$$

$$O_{gk} = 2r\pi$$

Prizma i valjak: $O = 2 \cdot B + P$

$V = B \cdot h$

Piramida i stožac: $O = B + P$

$V = \frac{1}{3} \cdot B \cdot h$

