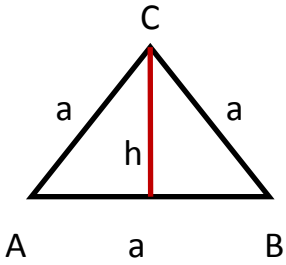
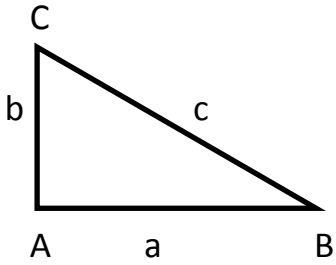
Једнакостранични троугао



$$O = 3a, \quad h = \frac{a}{2}\sqrt{3}$$

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

Правоугли троугао



a,b – катете

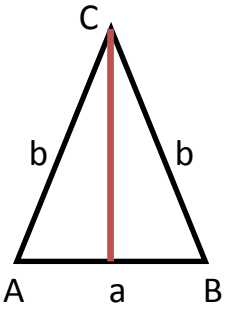
c – хипотенуза

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

$$O = a + b + c$$

$$P = \frac{ab}{2} = \frac{ch_c}{2}$$

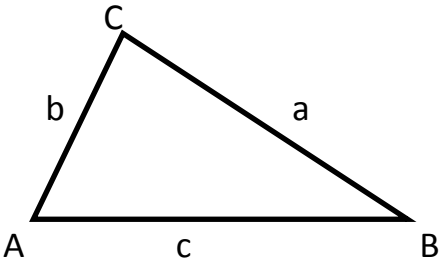
Једнакокраки троугао



$$O = a + 2b, \quad P = \frac{ah_a}{2}$$

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

Разностранични троугао



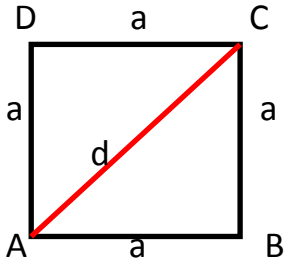
$$O = a + b + c$$

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

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

$$R = \frac{abc}{4P}, \qquad P = rs$$

Квадрат

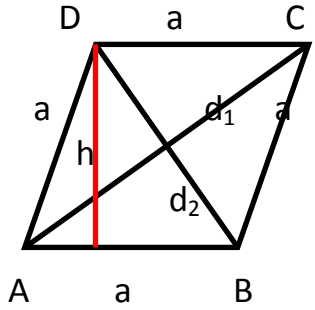


$$O = 4a$$

$$P = a^2$$

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

Ромб

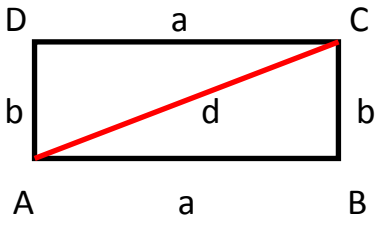


$$O = 4a$$

$$P = ah \qquad P = \frac{d_1 \cdot d_2}{2}$$

$$a^2 = \left(\frac{d_1}{2}\right)^2 + \left(\frac{d_2}{2}\right)^2$$

Правоугаоник

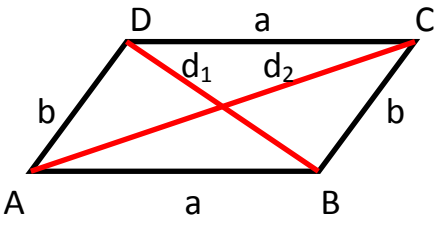


$$O = 2a + 2b,$$

$$d^2 = a^2 + b^2$$

$$P = ab$$

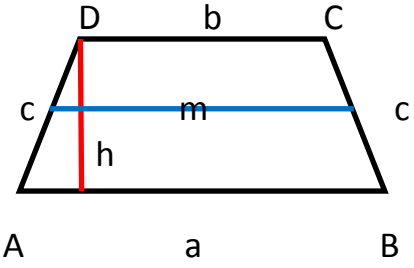
Паралелограм



$$O = 2a + 2b$$

$$P = ah_a = bh_b$$

Трапез једнакокраки



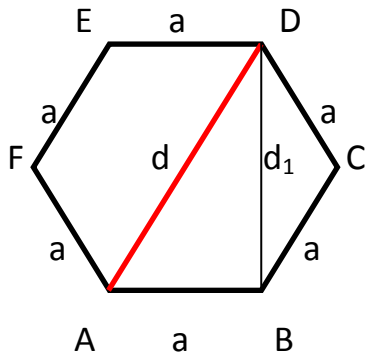
$$O = a + b + 2c$$

$$P = mh$$

$$c^2 = (\frac{a-b}{2})^2 + h^2$$

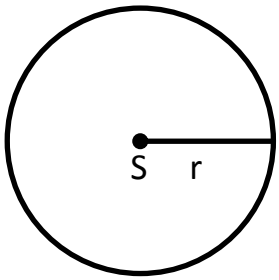
$$\mathrm{m} = \frac{a+b}{2}$$

Шестоугао



$$O = 6a$$
$$P = 6\frac{a^2\sqrt{3}}{4}$$
$$d = 2a$$

Круг



$$P = r^2\pi$$
$$O = 2r\pi$$
$$\pi \approx 3{,}14$$

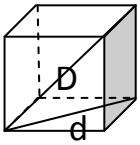
Призма

P=2B+M V=BH

Пирамида

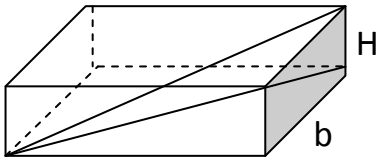
P= B+M V=$\frac{BH}{3}$

Коцка



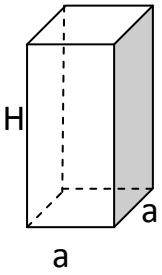
P=$6a^2$
V=a^3
d=$a\sqrt{2}$
D=$a\sqrt{3}$
P_{dp}=ad

Квадар



P=2ab+2aH+2bH
V=abH
$d^2=a^2+b^2$
$D^2=a^2+b^2+H^2$

Правилна четворострана призма



$B=a^2$

$M=4aH$

$P=2a^2+4aH$

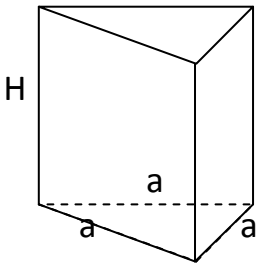
$V=a^2H$

$d=a\sqrt{2}$

$P_{dp}=dH$

$D^2=d^2+H^2$

Правилна тространа призма



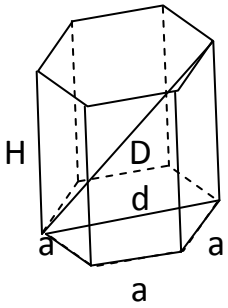
$$B=\frac{a^2\sqrt{3}}{4}$$

$M=3aH$

$$P=2\frac{a^2\sqrt{3}}{4}+3aH$$

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

Правилна шестострана призма



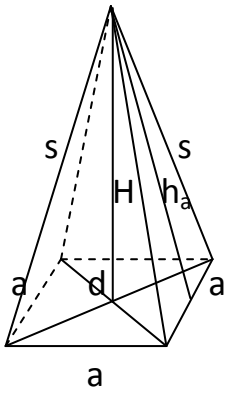
$$B=6\frac{a^2\sqrt{3}}{4}$$ $M=6aH$

$$P=2\cdot 6\frac{a^2\sqrt{3}}{4}+6aH$$

$$V=6\frac{a^2\sqrt{3}}{4}H$$

$d=2a$ $D^2=(2a)^2+H^2$

Правилна четворострана пирамида



$$s^2=h_a^2+\left(\frac{a}{2}\right)^2$$

$$s^2=H^2+\left(\frac{d}{2}\right)^2$$

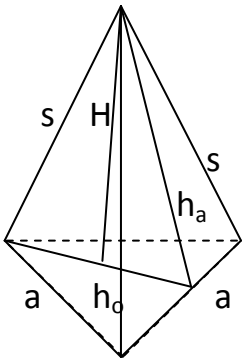
$$h_a^2=H^2+\left(\frac{a}{2}\right)^2$$

$$B=a^2 \qquad M=\frac{4a\,h_a}{2}$$

$$P=a^2+\frac{4a\,h_a}{2}$$

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

Правилна тространа пирамида



$$s^2=h_a^2+\left(\frac{a}{2}\right)^2$$

$$s^2=H^2+\frac{a^2}{3}$$

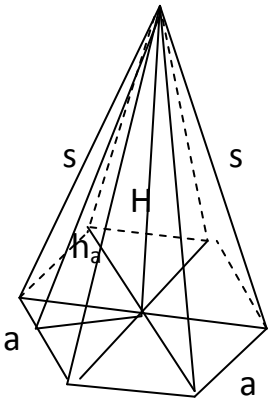
$$h_a^2=H^2+\frac{a^2}{12}$$

$$B=\frac{a^2\sqrt{3}}{4} \qquad M=\frac{3a\,h_a}{2}$$

$$P=\frac{a^2\sqrt{3}}{4}+\frac{3a\,h_a}{2}$$

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

Правилна шестострана пирамида



$$s^2=h_a^2+\left(\frac{a}{2}\right)^2$$

$$s^2=H^2+a^2$$

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

$$B=\frac{6a^2\sqrt{3}}{4} \qquad M=\frac{6a\,h_a}{2}$$

$$P=6\frac{a^2\sqrt{3}}{4}+\frac{6a\,h_a}{2}$$

$$V=6\frac{a^2\sqrt{3}}{4}\frac{H}{3}$$