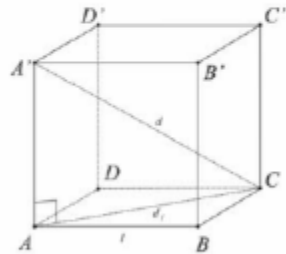


FORMULE - CORPURI GEOMETRICE

I. POLIEDRE

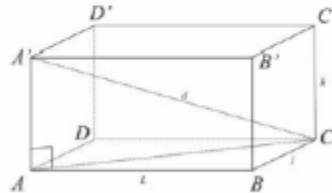
CUBUL



$$A_l = 4l^2; A_t = 6l^2; V = l^3$$

$$d_f = l\sqrt{2}; d = l\sqrt{3}$$

PARALELIPIPEDUL DREPTUNGHI

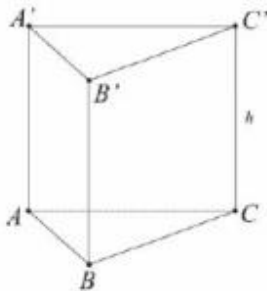


$$A_t = 2 \cdot (L \cdot l + L \cdot h + l \cdot h); V = L \cdot l \cdot h$$

$$d = \sqrt{L^2 + l^2 + h^2}$$

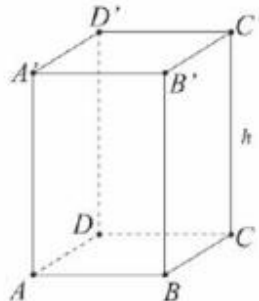
PRISMA REGULATĂ

TRIUNGHILARĂ



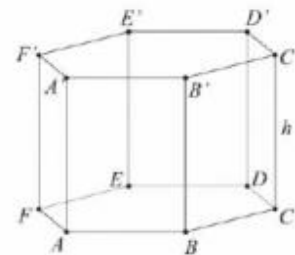
$$A_t = P_b \cdot h$$

PATRULATERĂ



$$A_t = A_l + 2 \cdot A_b$$

HEXAGONALĂ



$$V = A_b \cdot h$$

Al= aria laterala;

At=aria totala;

V=volumul;

d=diagonala figurii; **df**= diagonala unei fete laterale;

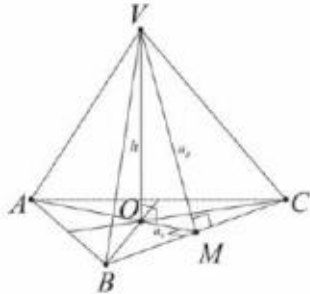
Pb=perimetrul bazei;

Ab=aria bazei

h=inaltimea

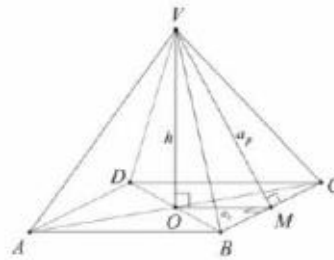
PIRAMIDA REGULATĂ

TRIUNghiULARĂ



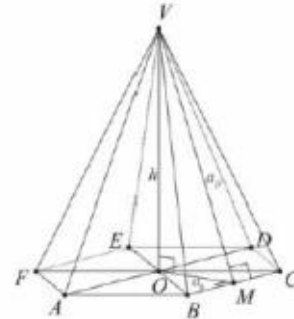
$$A_l = \frac{P_b \cdot a_p}{2}$$

PATRULATERĂ



$$A_t = A_l + A_b$$

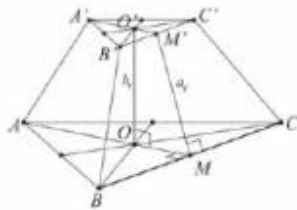
HEXAGONALĂ



$$V = \frac{A_b \cdot h}{3}$$

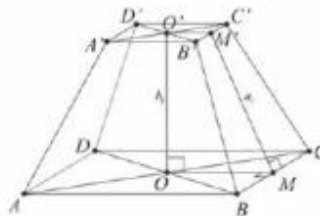
TRUNCHIUL DE PIRAMIDĂ REGULATĂ

TRIUNghiULARĂ



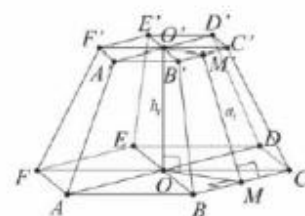
$$A_l = \frac{(P_B + P_b) \cdot a_t}{2}$$

PATRULATERĂ



$$A_t = A_l + A_B + A_b$$

HEXAGONALĂ



$$V = \frac{h_t}{3} \cdot (A_B + A_b + \sqrt{A_B \cdot A_b})$$

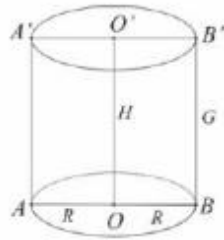
Al= aria laterala; **At**=aria totala; **V**=volumul; **d**=diagonala figurii; **df**= diagonala unei fețe **ap**=apotema piramidei; **Pb**=perimetrul bazei; **Ab**=aria bazei

trunchiului de piramida

Ab=aria bazei mici; **AB**=aria bazei mari; **Pb**=perimetrul bazei mici; **PB**=perimetrul bazei mari; **at**=apotema trunchiului de piramida;

II. CORPURI ROTUNDE

CILINDRUL

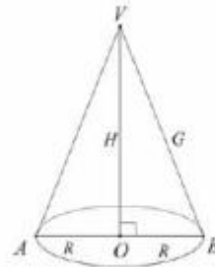


$$A_l = 2\pi R G$$

$$A_t = 2\pi R (G + R)$$

$$V = \pi R^2 H$$

CONUL

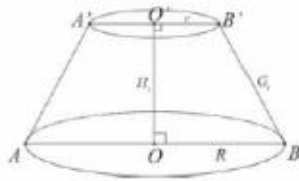


$$A_l = \pi R G$$

$$A_t = \pi R (G + R)$$

$$V = \frac{\pi R^2 H}{3}$$

TRUNCHIUL DE CON

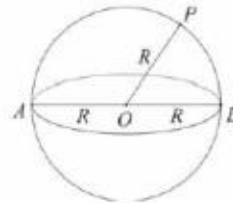


$$A_l = \pi G_t (R + r)$$

$$A_t = \pi G_t (R + r) + \pi R^2 + \pi r^2$$

$$V = \frac{\pi H_t}{3} (R^2 + r^2 + Rr)$$

SFERA



$$A = 4\pi R^2$$

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

R= raza; **G**=generatoare; **H**=inaltime; **A_l**= aria laterala; **A_t**=aria totala; **V**=volumul

r= raza bazei mici; **R**=raza bazei mari; **G_t**=generatoarea trunchiului; **H_t**= inaltimea trunchiului;