Geometrie

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Unghiuri

- **congruente** : au măsuri egale
- **adiacente** : au același vârf și
  - o latură comună
- **opuse la vârf** : au același vârf și laturile unuia sunt în prelungirea laturilor celuilalt

  > Două unghiuri opuse la vârf sunt congruente

- **complementare** : două unghiuri care au suma $90°$
  - Ex. complementul unghiului de $20°$ este unghiul de $70°$
- **suplementare** : două unghiuri care au suma $180°$
  - Ex. suplementul unghiului de $20°$ este unghiul de $160°$
- unghi **alungit** : care are $180°$; unghi **nul** care are $0°$
- unghi **propriu** : care nu este nici alungit, nici nul
- unghi **ascuțit** $< 90°$, **drept** $= 90°$, **obtuz** $> 90°$

- unghiuri **în jurul unui punct**

  > Suma unghiurilor în jurul unui punct este $360°$

- Unghiuri formate de două drepte cu o secantă
  - **alterne interne** : 1 și 7, 2 și 8
  - **alterne externe** : 3 și 5, 4 și 6
  - **corespondente** : 1 și 5, 2 și 6
    - 3 și 7, 4 și 8

  > Dacă dreptele sunt paralele, aceste perechi de unghiuri sunt congruente și reciproc

Teoreme importante

- suma unghiurilor unui triunghi este $180°$
- suma unghiurilor unui patrulater este $360°$
- unghiurile de la baza unui triunghi isoscel sunt congruente
- într-un triunghi isoscel, bisectoarea unghiului de la vârf este și mediană, înălțime, mediatoare
- într-un triunghi dreptunghic, mediana din vârful unghiului drept este jumătate din ipotenuză
- într-un triunghi dreptunghic care are un unghi de $30°$, cateta opusă acestui unghi este jumătate din ipotenuză
- teorema lui **Thales**:
  $EF \parallel BC \Rightarrow \dfrac{AE}{EB} = \dfrac{AF}{FC}$
- teorema **fundamentală a asemănării**:
  dacă $EF \parallel BC$, atunci $\triangle AEF \sim \triangle ABC$ (sunt asemenea), adică
  $\dfrac{AE}{AB} = \dfrac{AF}{AC} = \dfrac{EF}{BC}$

  > raportul ariilor a două triunghiuri asemenea este egal cu pătratul raportului de asemănare

- teorema **bisectoarei** dacă AD
  este bisectoare, $\dfrac{AB}{BD} = \dfrac{AC}{DC}$
  într-un $\triangle$ dreptunghic:
- teorema **înălțimii**: $AD = \sqrt{BD \cdot DC}$
- teorema **catetei**: $AB = \sqrt{BD \cdot BC}$
- teorema lui **Pitagora**: $AB^2 = AC^2 + BC^2$

- **unghiul la centru** : $\angle AOB$ are măsura egală cu cea a arcului cuprins între laturi
- **unghiul înscris** : $\angle AMB$ are măsura jumătate din a arcului cuprins între laturi
- raza este perpendiculară pe tangentă
- unghiul format de o tangentă cu o coardă este jumătate din arcul subîntins de coardă
- diametrul perpendicular pe o coardă înjumătățește coarda și arcul
- teorema celor trei perpendiculare :
  $AM \perp \alpha, MB \perp d \Rightarrow AB \perp d$

Trigonometrie

	$30°$	$45°$	$60°$
$\sin$	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$
$\cos$	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$
$\tan$	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$

$\sin^2 \alpha + \cos^2 \alpha = 1$

Puncte și drepte

- puncte **coliniare**: sunt situate pe o dreaptă
- drepte **concurente**: drepte care se intersectează
- **punct de concurență**: punctul în care se intersectează două drepte
- **semidreapta deschisă**: $(OA \quad O \notin (OA$
- **semidreapta închisă**: $[OA \quad O \in [OA$
- segmente **congruente**: au lungimi egale $[AB] \equiv [CD]$
- drepte **perpendiculare**: formează un unghi drept $\quad a \perp b$
- drepte **paralele**: sunt în același plan și nu se intersectează $\quad a \parallel b$

> **Axioma lui Euclid:**
> printr-un punct exterior unei drepte se poate duce o singură paralelă la dreapta dată.

Linii importante în triunghi

- **Bisectoarea**: împarte un unghi în două unghiuri congruente.
  Bisectoarele sunt concurente în I - centrul cercului înscris.
- **Mediatoarea**: perpendiculară pe mijlocul unei laturi.
  Mediatoarele sunt concurente în O - centrul cercului circumscris.
  La triunghiul obtuzunghic, O este situat în exterior.
  La triunghiul dreptunghic, O este în mijlocul ipotenuzei.
- **Înălțimea**: perpendiculara dintr-un vârf pe latura opusă.
  Înălțimile sunt concurente în H - ortocentru.
  La triunghiul obtuzunghic, H este în exterior.
- **Mediana**: unește un vârf cu mijlocul laturii opuse.
  Medianele sunt concurente în G - centrul de greutate.
  Centrul de greutate este la $\frac{1}{3}$ de bază și $\frac{2}{3}$ de vârf: $GM = \frac{1}{3}AM, GA = \frac{2}{3}AM$

Arii și alte formule:

Triunghi $A = \dfrac{b \cdot h}{2}$, $A = \dfrac{ab \sin \alpha}{2}$, $A = \sqrt{p(p-a)(p-b)(p-c)}$, unde p este

semiperimetrul, $p = \dfrac{a+b+c}{2}$ (**formula lui Heron**)

Triunghi echilateral: înălțimea $h = \dfrac{l\sqrt{3}}{2}$; aria $A = \dfrac{l^2\sqrt{3}}{4}$

Triunghi dreptunghic: înălțimea $h = \dfrac{cc'}{ip}$; aria $A = \dfrac{cc'}{2}$

Linia mijlocie în triunghi
- unește mijloacele a două laturi;
- este paralelă cu a treia latură și
- este jumătate din aceasta.

Raza cercului înscris în triunghi $r = \dfrac{A}{p}$

Paralelogram $A = b \cdot h$ **Dreptunghi** $A = L \cdot l$ **Romb** $A = \dfrac{D \cdot d}{2}$

Pătrat diagonala $d = l\sqrt{2}$, aria $A = l^2$

Trapez $A = \dfrac{(B+b) \cdot h}{2}$

Linia mijlocie în trapez
- unește mijloacele laturilor neparalele;
- este paralelă cu bazele și
- este egală cu media lor aritmetică: $l_m = \dfrac{B+b}{2}$

Poligon regulat: apotema $a_n = R \cos \dfrac{180°}{n}$; latura $l_n = 2R \sin \dfrac{180°}{n}$

Măsura unghiului $a_n = \dfrac{(n-2) \cdot 180°}{n}$; Nr. diagonalelor $= \dfrac{n(n-3)}{2}$

Cerc: Lungimea (circumferința): $L = 2\pi R$; Aria $A = \pi R^2$; $\pi = 3,14159265...$

Figuri geometrice

Triunghi

- **isoscel**: are două laturi congruente
- **echilateral**: are toate laturile congruente
- **oarecare**: are laturi de lungimi diferite
- **ascuțitunghic**: toate unghiurile ascuțite
- **dreptunghic**: are un unghi drept
  - **catete**: laturile care formează unghiul drept
  - **ipotenuza**: latura opusă unghiului drept
- **obtuzunghic**: are un unghi obtuz

Patrulater

- **Paralelogram**: are laturile opuse paralele

Proprietățile paralelogramului:
- laturile opuse sunt congruente
- unghiurile opuse sunt congruente, iar unghiurile alăturate sunt suplementare
- diagonalele au același mijloc

Dreptunghiul: paralelogramul care are un unghi drept
- diagonalele dreptunghiului sunt congruente

Rombul: paralelogramul care are două laturi alăturate congruente
- diagonalele rombului sunt perpendiculare și sunt bisectoare ale unghiurilor

Pătratul: are toate proprietățile dreptunghiului și rombului

- **Trapezul**: are două laturi paralele și celelalte două neparalele
  - **Trapez isoscel**: are laturile neparalele congruente
  - **Trapez dreptunghic**: are un unghi drept

Poliedre

Prisma $V = A_b \cdot h$
A_l = suma ariilor fețelor laterale
Aria totală $A_t = A_l + 2A_b$
Diagonala paralelipiped $d = \sqrt{a^2 + b^2 + c^2}$
Diagonala cubului $d = l\sqrt{3}$

Piramida $V = \dfrac{A_b \cdot h}{3}$
A_l = suma ariilor fețelor laterale
Aria totală $A_t = A_l + A_b$
apotema=înălțimea unei fețe laterale

Trunchiul de piramidă
$V = \dfrac{h}{3}(A_B + A_b + \sqrt{A_B \cdot A_b})$
A_l = suma ariilor fețelor laterale
Aria totală $A_t = A_l + A_B + A_b$

Corpuri rotunde

Cilindrul $A_l = 2\pi R G$
$A_t = A_l + 2A_b$
$V = \pi R^2 h$

Conul $A_l = \pi R G$
$A_t = A_l + A_b$
$V = \dfrac{\pi R^2 h}{3}$

unghiul sectorului desfășurării $u = \dfrac{360° R}{G}$

Trunchi de con
$A_l = \pi G(R + r)$
$A_t = A_l + A_B + A_b$
$V = \dfrac{\pi h}{3}(R^2 + r^2 + Rr)$

Sfera $A = 4\pi R^2$
$V = \dfrac{4\pi R^3}{3}$

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