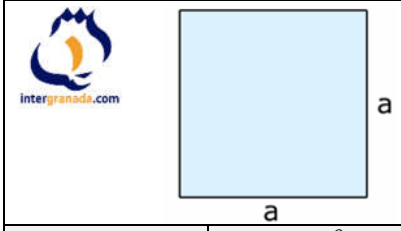
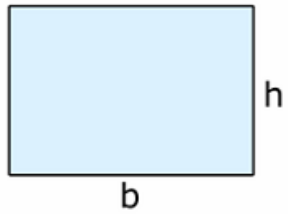
# Áreas y Perímetros de Figuras Planas

## Cuadrado



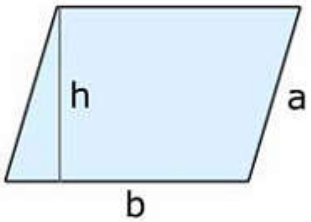

| $P=4\cdot a$ | $A=a^2$ |
|---|---|

## Rectángulo



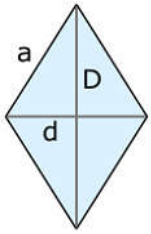

| $P=2\cdot(b+h)$ | $A=b\cdot h$ |
|---|---|

## Paralelogramo



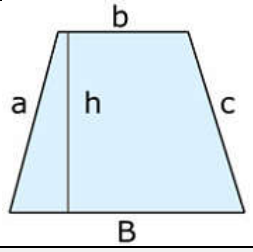

| $P=2\cdot(a+b)$ | $A=b\cdot h$ |
|---|---|

## Rombo



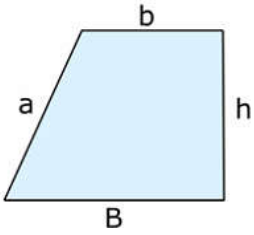

| $P=4\cdot a=4\cdot\sqrt{\left(\frac{d}{2}\right)^2+\left(\frac{D}{2}\right)^2}$ | $A=\frac{D\cdot d}{2}$ |
|---|---|

## Trapecio



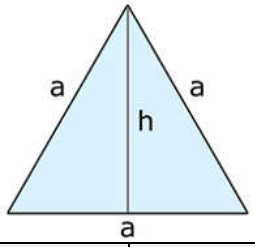

| $P=a+B+c+b$ | $A=\frac{B+b}{2}\cdot h$ |
|---|---|

## Trapecio Recto



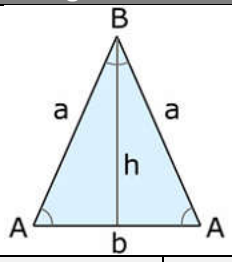

| $P=a+B+h+b$<br>$P=B+b+h+\sqrt{(B-b)^2+h^2}$ | $A=\frac{B+b}{2}\cdot h$ |
|---|---|

## Triángulo Equilátero



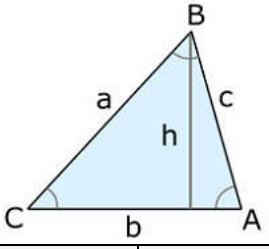

| $P=3\cdot a$ | $A=\frac{a\cdot h}{2}$ |
|---|---|

## Triángulo Isósceles



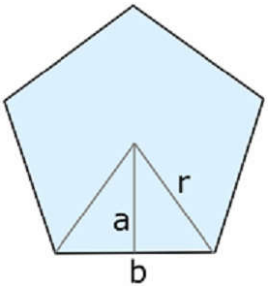

| $P=2\cdot a+b$ | $A=\frac{b\cdot h}{2}$ |
|---|---|

## Triángulo Escaleno



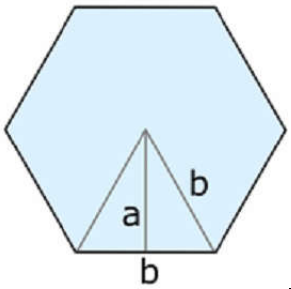

| $P=a+b+c$ | $A=\frac{b\cdot h}{2}$ |
|---|---|

## Pentágono Regular



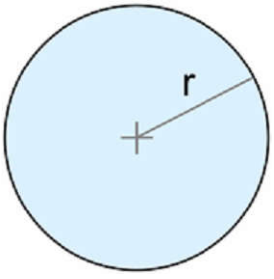

| $P=5\cdot b$ | $A=\frac{P\cdot a}{2}$ |
|---|---|

## Hexágono Regular



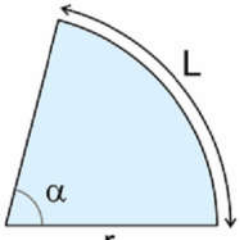

| $P=6\cdot b$ | $A=\frac{P\cdot a}{2}$ |
|---|---|

## Círculo



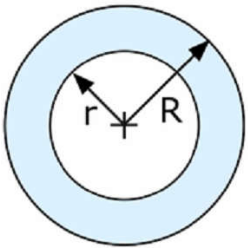

| $P=2\cdot\pi\cdot r$ | $A=\pi\cdot r^2$ |
|---|---|

## Sector Circular



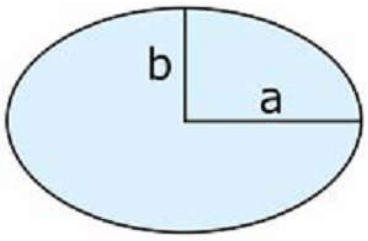

| $L=\pi\cdot r\cdot\frac{\alpha}{180}$ | $A=\pi\cdot r^2\cdot\frac{\alpha}{360}$ |
|---|---|

## Corona Circular




| $P=2\pi(R+r)$ | $A=\pi(R^2-r^2)$ |
|---|---|

## Elipse



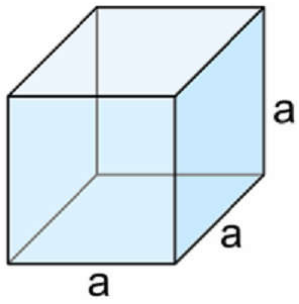

| $P=\pi(a+b)$ | $A=\pi\cdot a\cdot b$ |
|---|---|



Mayo de 2021

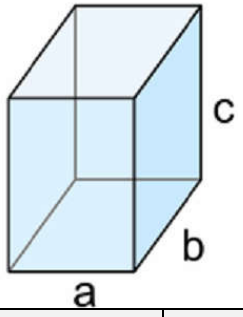
# Áreas y Volúmenes de Figuras en el espacio

## Cubo



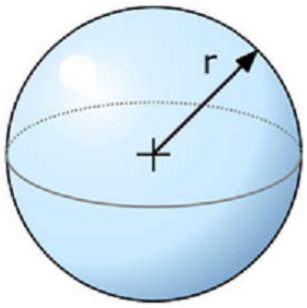

| | |
|---|---|
| $A_{Lat} = 6a^2$ | $V = a^3$ |

## Ortoedro



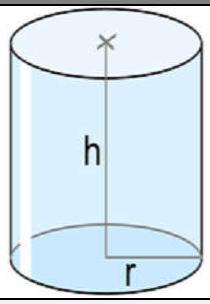

| | |
|---|---|
| $A_{Lat} = 2(a \cdot b + b \cdot c + a \cdot c)$ | $V = a \cdot b \cdot c$ |

## Esfera



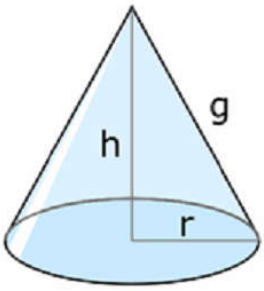

| | |
|---|---|
| $A_{Lat} = 4 \cdot \pi \cdot r^2$ | $V = \frac{4}{3} \cdot \pi \cdot r^3$ |

## Cilindro



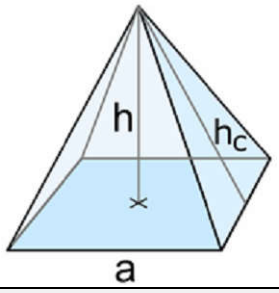

| | |
|---|---|
| $A_{Lat} = 2 \cdot \pi \cdot r \cdot h$ | |
| $A_{Total} = 2 \cdot \pi \cdot r \cdot (r + h)$ | |
| $V = \pi \cdot r^2 \cdot h$ | |

## Cono



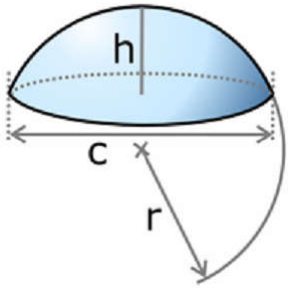

| | |
|---|---|
| $A_{Lat} = \pi \cdot r \cdot g \qquad g = \sqrt{h^2 + r^2}$ | |
| $A_{Total} = \pi \cdot r \cdot (r + g)$ | |
| $V = \frac{1}{3} \pi \cdot r^2 \cdot h$ | |

## Pirámide



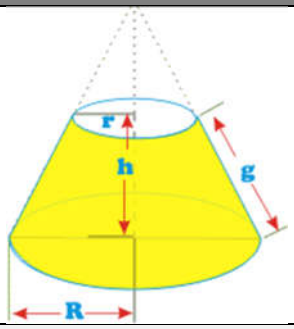

| | |
|---|---|
| $A_{Lat} = \frac{Perímetro_{Base} \cdot h_c}{2}$ | |
| $A_{Total} = A_{lat} + A_{Base}$ | |
| $V = \frac{1}{3} \cdot A_{base} \cdot h$ | |

## Casquete



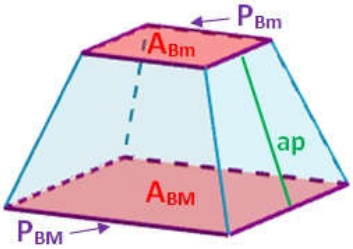

| | |
|---|---|
| $A_{Lat} = 2 \cdot \pi \cdot r \cdot h = \frac{\pi}{4}(c^2 + 4h^2)$ | |
| $A_{Base} = \frac{\pi \cdot c^2}{4} \qquad r = \frac{h}{2} + \frac{c^2}{8h}$ | |
| $V = \pi \cdot h^2 \left(r - \frac{h}{3}\right) = \frac{\pi}{6} \cdot h \left(\frac{3c^2}{4} + h^2\right)$ | |

## Tronco de cono



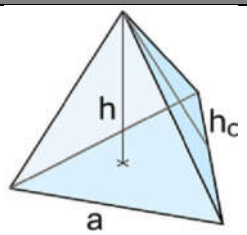

| | |
|---|---|
| $A_{Lat} = \pi \cdot (R + r) \cdot g$ | |
| $A_{Total} = \pi \cdot \left[(R + r) \cdot g + R^2 + r^2\right]$ | |
| $V = \frac{\pi \cdot h \cdot (R^2 + r^2 + R \cdot r)}{3}$ | |

## Tronco de pirámide



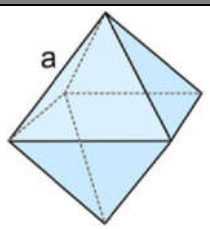

| | |
|---|---|
| $A_{Lat} = \frac{(P_{BM} + P_{Bm}) \cdot ap}{2}$ | |
| $A_{Tot} = \frac{(P_{BM} + P_{Bm}) \cdot ap}{2} + A_{BM} + A_{Bm}$ | |
| $V = \frac{h \left(A_{BM} + A_{Bm} + \sqrt{A_{BM} \cdot A_{Bm}}\right)}{3}$ | |

## Tetraedro



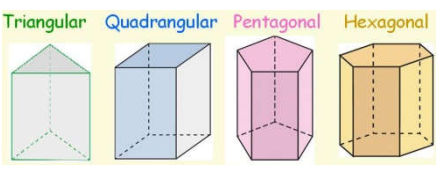

| | |
|---|---|
| $A = \sqrt{3} \cdot a^2$ | $V = \frac{\sqrt{2}}{12} \cdot a^3$ |

## Octaedro




| | |
|---|---|
| $A = 2 \cdot \sqrt{3} \cdot a^2$ | $V = \frac{\sqrt{2}}{3} \cdot a^3$ |

## Prismas Rectos




| | |
|---|---|
| $A = 2A_{base} + n \cdot A_{lat}$ | $V = A_{base} \cdot h$ |



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