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VOLUME OF RECTANGULAR SOLID:

$$V = lwh$$

l = length
 w = width
 h = height

VOLUME OF CYLINDRICAL SOLID:

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

$$V = \frac{\pi}{4} d^2 h$$

r = radius
 d = Diameter
 h = height

CAPACITANCE IN SERIES:

$$C = \frac{1}{\frac{1}{C_1} + \frac{1}{C_2} + \dots}$$

CAPACITANCE IN PARALLEL:

$$C = C_1 + C_2 + \dots$$

GAS LAWS:

Boyle's Law: $P_1 V_1 = P_2 V_2$ P = Pressure (absolute)
 V = Volume

Charles' Law: $\frac{P_1}{T_1} = \frac{P_2}{T_2}$ P = Pressure (absolute)
 T = Temperature (absolute)

General Gas Law: $\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2}$ P = Pressure (absolute)
 V = Volume
 T = Temperature (absolute)

PYTHAGOREAN THEOREM:

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

c = hypotenuse
 a & b = sides



3D GEOMETRY FORMULAS
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<p>CUBE s = side Volume: $V = s^3$ Surface Area: $S = 6s^2$</p>	<p>GENERAL CONE OR PYRAMID A = area of base, h = height Volume: $V = \frac{1}{3}Ah$</p>
<p>RECTANGULAR SOLID l = length, w = width, h = height Volume: $V = lwh$ Surface Area: $S = 2lw + 2lh + 2wh$</p>	<p>RIGHT CIRCULAR CONE r = radius, h = height Volume: $V = \frac{1}{3}\pi r^2 h$ Surface Area: $S = \pi r^2 + \pi r l$</p>
<p>SPHERE r = radius Volume: $V = \frac{4}{3}\pi r^3$ Surface Area: $S = 4\pi r^2$</p>	<p>FRUSTUM OF A CONE r = top radius, R = base radius, h = height, s = slant height Volume: $V = \frac{1}{3}\pi (r^2 + R^2 + rR)h$ Surface Area: $S = \pi (R + r)l + \pi r^2 + \pi R^2$</p>
<p>RIGHT CIRCULAR CYLINDER r = radius, h = height Volume: $V = \pi r^2 h$ Surface Area: $S = 2\pi r h + 2\pi r^2$</p>	<p>SQUARE PYRAMID s = side, h = height Volume: $V = \frac{1}{3}s^2 h$ Surface Area: $S = s^2 + \sqrt{2} s l$</p>
<p>TORUS r = tube radius, R = torus radius Volume: $V = 2\pi^2 R r^2$ Surface Area: $S = 4\pi^2 R r$</p>	<p>REGULAR TETRAHEDRON s = side Volume: $V = \frac{1}{6}\sqrt{2}s^3$ Surface Area: $S = \sqrt{3}s^2$</p>

The Law of Cosine

$$a^2 = b^2 + c^2 - 2bc \cos \alpha$$

$$b^2 = c^2 + a^2 - 2ca \cos \beta$$

$$c^2 = a^2 + b^2 - 2ab \cos \gamma$$

$$\cos \alpha = \frac{b^2 + c^2 - a^2}{2bc}$$

$$\cos \beta = \frac{c^2 + a^2 - b^2}{2ca}$$

$$\cos \gamma = \frac{a^2 + b^2 - c^2}{2ab}$$

The Law of Sine

$$\frac{a}{\sin \alpha} = \frac{b}{\sin \beta} = \frac{c}{\sin \gamma}$$

The Law of Tangent

$$\frac{a-b}{a+b} = \frac{\tan(\frac{\alpha-\beta}{2})}{\tan(\frac{\alpha+\beta}{2})}$$

$$\frac{b-c}{b+c} = \frac{\tan(\frac{\beta-\gamma}{2})}{\tan(\frac{\beta+\gamma}{2})}$$

$$\frac{c-a}{c+a} = \frac{\tan(\frac{\gamma-\alpha}{2})}{\tan(\frac{\gamma+\alpha}{2})}$$

Half Angles Formulas

$$\sin \frac{\alpha}{2} = \sqrt{\frac{(s-b)(s-c)}{bc}}$$

$$\sin \frac{\beta}{2} = \sqrt{\frac{(s-c)(s-a)}{ca}}$$

$$\sin \frac{\gamma}{2} = \sqrt{\frac{(s-a)(s-b)}{ab}}$$

$$\cos \frac{\alpha}{2} = \sqrt{\frac{s(s-a)}{bc}}$$

$$\cos \frac{\beta}{2} = \sqrt{\frac{s(s-b)}{ca}}$$

$$\cos \frac{\gamma}{2} = \sqrt{\frac{s(s-c)}{ab}}$$

$$\tan \frac{\alpha}{2} = \sqrt{\frac{(s-b)(s-c)}{s(s-a)}}$$

$$\tan \frac{\beta}{2} = \sqrt{\frac{(s-c)(s-a)}{s(s-b)}}$$

$$\tan \frac{\gamma}{2} = \sqrt{\frac{(s-a)(s-b)}{s(s-c)}}$$

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

Area of Triangle (=Δ)

$$\Delta = \frac{1}{2}bc \sin \alpha = \frac{1}{2}ca \sin \beta = \frac{1}{2}ab \sin \gamma$$

$$\Delta = \frac{a^2 \sin \beta \sin \gamma}{2 \sin \alpha} = \frac{b^2 \sin \gamma \sin \alpha}{2 \sin \beta} = \frac{c^2 \sin \alpha \sin \beta}{2 \sin \gamma}$$

$$\Delta = \sqrt{s(s-a)(s-b)(s-c)} \quad (\text{Hero's Formula})$$

Circum Radius (=R)

$$R = \frac{a}{2 \sin \alpha} = \frac{b}{2 \sin \beta} = \frac{c}{2 \sin \gamma}$$

$$R = \frac{abc}{4\Delta}$$

In Radius (=r)

$$r = \frac{\Delta}{s}$$

Escribed Circle

$$r_1 = \frac{\Delta}{s-a}$$

$$r_2 = \frac{\Delta}{s-b}$$

$$r_3 = \frac{\Delta}{s-c}$$

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