Important Formulas

slope-intercept form: $y = mx + b$

example: $y = \frac{3}{2}x - 7$

point-slope formula: $y - y_1 = m(x - x_1)$

example: Find the equation for the line that has a slope of 3 and passes through the point (-2, 5).

slope formula: $m = \frac{x_2 - x_1}{y_2 - y_1}$

example: Find the slope of the line that passes through the points $(2, -9)$ and $(-5, 7)$.

Quadratic Formula: $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

distance formula: $d = \sqrt{(x_1 - x_2) + (y_1 - y_2)}$

example: Find the distance between the points (2, -1) and (5, -8).

midpoint: $(x, y) = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$

example: Find the midpoint between the points (2, -1) and (5, -8).

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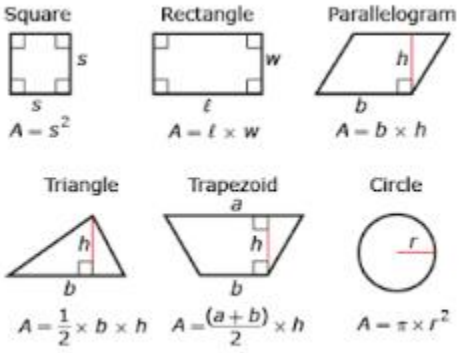
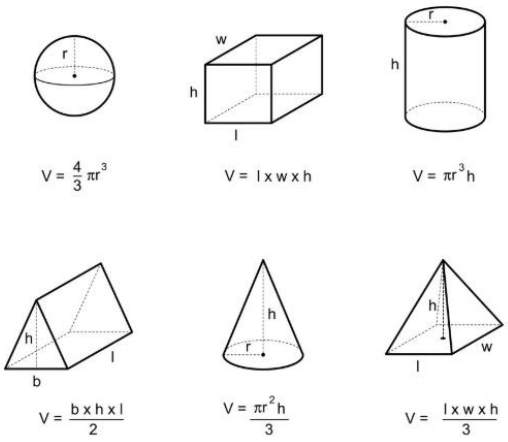
Area and Volume

AREA



VOLUME



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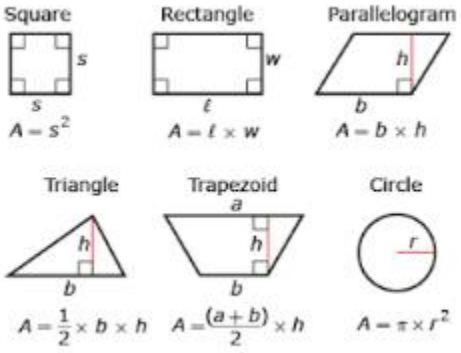
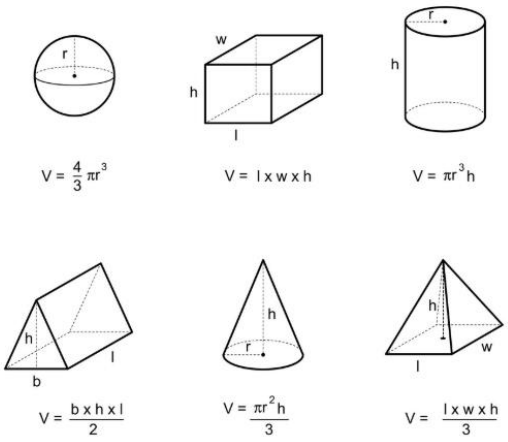
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