Geometry and Trigonometry Formula Sheet

The key formulas in one printable page

Pythagorean theorem

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

Circle circumference

$$C = 2\pi r$$

Circle area

$$A = \pi r^2$$

Sector area

$$A = \frac{\theta}{360^\circ}\pi r^2$$

Distance between points

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Midpoint

$$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$$

Cylinder volume

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

Sphere volume

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

Law of Sines

$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

Law of Cosines

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

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