

geometry formulas pdf

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1. Basic Geometric Concepts

- Angles and their properties
- Types of angles (acute, right, obtuse, straight)
- Complementary and supplementary angles
- Angles in a triangle
- Angles around a point and on a straight line

2. Triangle Formulas

- Perimeter of a triangle
- Area formulas:
 - Heron's formula for the area given sides
 - $\text{Base} \times \text{height} / 2$
- Pythagorean theorem for right-angled triangles
- Properties of special triangles (equilateral, isosceles, scalene)
- Law of Sines and Law of Cosines

3. Quadrilaterals and Polygons

- Square: perimeter and area
- Rectangle: perimeter and area
- Parallelogram: area, perimeter, and properties
- Trapezium: area
- Regular polygons: area, perimeter, and interior/exterior angles

4. Circles

- Circumference: $2\pi r$
- Area: πr^2
- Arc length and sector area formulas
- Properties of tangents and secants

5. 3D Geometric Figures

- Surface area and volume of:
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 - Cuboids
 - Spheres
 - Cylinders
 - Cones
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Conclusion

A comprehensive **geometry formulas pdf** is an invaluable asset for anyone involved in learning or teaching geometry. It consolidates essential formulas, concepts, and diagrams into an easily accessible format, facilitating efficient study and problem-solving. Whether you're preparing for competitive exams or enhancing your understanding of geometric principles, having a reliable PDF resource can significantly improve your learning outcomes. Remember to choose reputable sources, practice regularly, and seek to understand the underlying concepts behind each formula for maximum benefit. With the right tools and consistent effort, mastering geometry becomes an achievable and rewarding endeavor.

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