




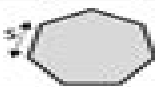
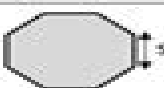
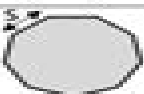

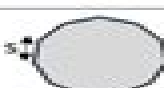



# AREA OF REGULAR POLYGONS FORMULA SHEET



REGULAR POLYGON	IMAGE	AREA OF SHAPE
<b>General Formula</b>		$A = \frac{n}{4} s^2 \cot \left( \frac{180^\circ}{n} \right)$
<b>Equilateral Triangle</b> <i>3 sides</i>		$A = \frac{\sqrt{3}}{4} s^2$
<b>Square</b> <i>4 sides</i>		$A = s^2$
<b>Regular Pentagon</b> <i>5 sides</i>		$A = \frac{1}{4} s^2 \sqrt{5(5 + 2\sqrt{5})}$
<b>Regular Hexagon</b> <i>6 sides</i>		$A = \frac{3\sqrt{3}}{2} s^2$
<b>Regular Heptagon</b> <i>7 sides</i>		$A = \frac{7}{4} s^2 \cot \left( \frac{180^\circ}{7} \right)$
<b>Regular Octagon</b> <i>8 sides</i>		$A = 2s^2(1 + \sqrt{2})$
<b>Regular Nonagon</b> <i>9 sides</i>		$A = \frac{9}{4} s^2 \cot 20^\circ$
<b>Regular Decagon</b> <i>10 sides</i>		$A = \frac{5}{2} s^2 \sqrt{5 + 2\sqrt{5}}$
<b>Regular Hendecagon</b> <i>11 sides</i>		$A = \frac{11}{4} s^2 \cot \left( \frac{180^\circ}{11} \right)$
<b>Regular Dodecagon</b> <i>12 sides</i>		$A = 3s^2(2 + \sqrt{3})$

# Geometry 11b Area Of Regular Polygons

**Michael Brown**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## Geometry 11b Area Of Regular Polygons:

*Euclid's Elements of geometry* [book 1-6, 11,12] with explanatory notes; together with a selection of geometrical exercises. To which is prefixed an intr., containing a brief outline of the history of geometry. By R. Potts. [With] Appendix Euclides,1845      **Euclid's Elements of Geometry [Books 1-6, 11, 12] ... By R. Potts. [Second edition.] Corrected and improved** ,1861      *Precalculus* Sheldon Axler,2017-08-21 Sheldon Axler s Precalculus A Prelude to Calculus 3rd Edition focuses only on topics that students actually need to succeed in calculus This book is geared towards courses with intermediate algebra prerequisites and it does not assume that students remember any trigonometry It covers topics such as inverse functions logarithms half life and exponential growth area e the exponential function the natural logarithm and trigonometry      The Child's Practical Geometry Walter Smith,1872      Plane Geometry Jacob William Albert Young,Lambert Lincoln Jackson,1916      **Geometry Computer Item Generator Bk 1998c** ,1998-10-15      **Geometry: The Line and the Circle** Maureen T. Carroll,Elyn Rykken,2018-12-20 Geometry The Line and the Circle is an undergraduate text with a strong narrative that is written at the appropriate level of rigor for an upper level survey or axiomatic course in geometry Starting with Euclid s Elements the book connects topics in Euclidean and non Euclidean geometry in an intentional and meaningful way with historical context The line and the circle are the principal characters driving the narrative In every geometry considered which include spherical hyperbolic and taxicab as well as finite affine and projective geometries these two objects are analyzed and highlighted Along the way the reader contemplates fundamental questions such as What is a straight line What does parallel mean What is distance What is area There is a strong focus on axiomatic structures throughout the text While Euclid is a constant inspiration and the Elements is repeatedly revisited with substantial coverage of Books I II III IV and VI non Euclidean geometries are introduced very early to give the reader perspective on questions of axiomatics Rounding out the thorough coverage of axiomatics are concluding chapters on transformations and constructibility The book is compulsively readable with great attention paid to the historical narrative and hundreds of attractive problems

*Aide-mémoire for the use of officers of Royal engineers* Anthony Charles Cooke,1879      **A Course of Mathematics** Charles Hutton,1860      *Geometry ; Plane Trigonometry ; Chain Surveying ; Compass Surveying ; Transit Surveying* ,1907      *The Mathematics Teacher* ,1921      The Texas Mathematics Teachers' Bulletin ,1916      **Resources for Teaching Mathematics: 11-14** Colin Foster,2011-09-22 This resource contains 50 ready to use mathematics lesson plans suitable for the whole department to use with learners aged 11 14 Each plan consists of a teacher s sheet which breaks down the lesson into time allocated sections from starter through to homework together with a photocopiable or downloadable student task sheet to give out There is also a companion website with extra material to support the lesson plans in the book giving teachers the time and confidence to try new activities in the classroom with minimal preparation The lesson tasks are open ended and encourage deep mathematical thinking allowing learners to explore different topics creatively through solving

problems in their own way This is an essential resource for any busy teacher of mathematics      *Homework Helpers: Geometry* Carolyn C. Wheeler, 2007-04-25 This new title in the Homework Helpers series will reinforce mathematical foundations and bolster students confidence in geometry The concepts are explained in everyday language before the examples are worked Good habits such as checking your answers after every problem are reinforced There are practice problems throughout the book and the answers to all of the practice problems are included The problems are solved clearly and systematically with step by step instructions provided Particular attention is placed on topics that students traditionally struggle with the most While this book could be used to supplement standard geometry textbooks it could also be used by college students or adult learners to refresh long forgotten concepts and skills Homework Helpers Geometry includes all the topics that are traditionally covered in a high school geometry course including Parallel lines Congruent lines Quadrilaterals and other polygons Similarity and special triangles Right triangle trigonometry Circles Area volume and solids      *Geometric Folding Algorithms* Erik D. Demaine, Joseph O'Rourke, 2007-07-16 Did you know that any straight line drawing on paper can be folded so that the complete drawing can be cut out with one straight scissors cut That there is a planar linkage that can trace out any algebraic curve or even sign your name Or that a Latin cross unfolding of a cube can be refolded to 23 different convex polyhedra Over the past decade there has been a surge of interest in such problems with applications ranging from robotics to protein folding With an emphasis on algorithmic or computational aspects this treatment gives hundreds of results and over 60 unsolved open problems to inspire further research The authors cover one dimensional 1D objects linkages 2D objects paper and 3D objects polyhedra Aimed at advanced undergraduate and graduate students in mathematics or computer science this lavishly illustrated book will fascinate a broad audience from school students to researchers      *Elementary Functions and Applications* Arthur Sullivan Gale, Charles William Watkeys, 1920      *Annual Report* University of the State of New York. High School Dept, 1901      **High School Department Bulletins** University of the State of New York, 1900 Contains proceedings of various teachers associations academic examination papers etc      **Bulletin** , 1900      **Documents of the Senate of the State of New York** New York (State). Legislature. Senate, 1901

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