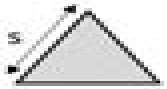
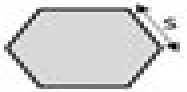
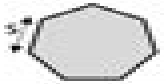
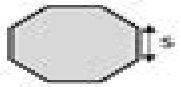
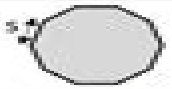
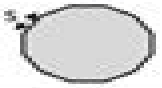
AREA OF REGULAR POLYGONS FORMULA SHEET

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

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Christopher Raymond Mitchell

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presents polygonal numbers figurate numbers based on polygons Applications real life examples and uses in art and architecture complement the presentation where many proofs with a visual nature are included A Panoply of Polygons can be used as a supplement to a high school or college geometry course It can also be used as a source for group projects or extra credit assignments It will appeal and be accessible to anyone with an interest in plane geometry Claudi Alsina and Roger Nelsen are jointly and individually the authors of thirteen previous MAA AMS books Those books and this one celebrate and illuminate the power of visualization in learning teaching and creating mathematics **Regular Polygons** Fen Chen,2001 Volume I contains five chapters from revisiting the New Theory of Trisection to heptasection and regular heptagon including tetrasection and regular tetragon pentasection and regular pentagon and hexasection and regular hexagon The most achievement of Chen s work is to construct a regular heptagon by heptasecting a right central angle in a defined circle and following a pattern method of constructing a regular triangle tetragon pentagon and hexagon **Note on Regular Polygons** C. A. Scott,1906 *Partially Regular Polygons Inscriptible in a Circle* Edith Gladys Jones,1921 **Properties of Polygons and Solids** Sara Freeman,2004-09-01 This easy to use packet is chock full of stimulating activities that will jumpstart your students interest in geometry while providing practice with the properties of polygons and solids A variety of puzzles and games will challenge students to think creatively as they sharpen their geometry skills Each page begins with a clear explanation of the featured geometry topic providing extra review and reinforcement **The Construction of Regular Polygons with the Accompanying Algebraic Analysis** Meyer Weiner,1917 The Construction of Regular Polygons by Ruler and Compasses Irma Jean Courtice,1931 Picturing Polygons Catherine Anderson,1996 Emphasis on mathematical thinking and teaching strategies on using shapes to create polygons Students can also investigate various properties of triangles quadrilaterals and regular polygons *Constructibility of Regular Polygons* Christopher Raymond Mitchell,1953 **Polygons** Marnie Luce,1969 An introduction to the geometric characteristics of polygons showing how these figures are used by man and where they are found in nature Includes study questions with answers *Shapes and Patterns* University of Hawaii (Honolulu). Curriculum Research & Development Group,1975 **Methods of Generating Regular Polygons** Jane Noller Turner,1950 **On Isoperimetric Regular Polygons** William John Macquorn Rankine,1867 *Construction of Regular Polygons ...* Arthur Bruce Gilchrist,1931 Transformations of regular polygons He Jiang,1996 *The Regular Polygons in the Geometry [sigma]R, F, with 2 [epsilon] U* Monica Rothenstein,1981

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