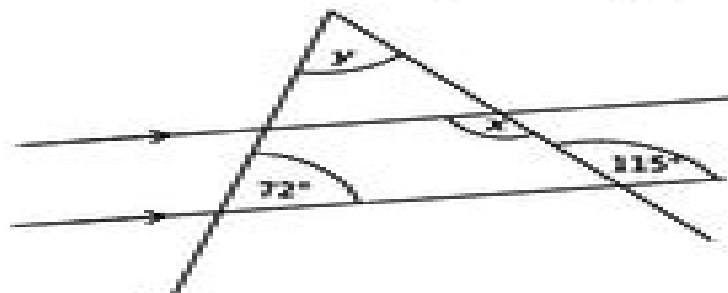


Name _____

Teacher _____

Y10/11 Test – Polygons & Angle Properties

1. Find the sizes of angles x and y , giving reasons for your answers.



$x =$ _____

Reason(s) _____

$y =$ _____

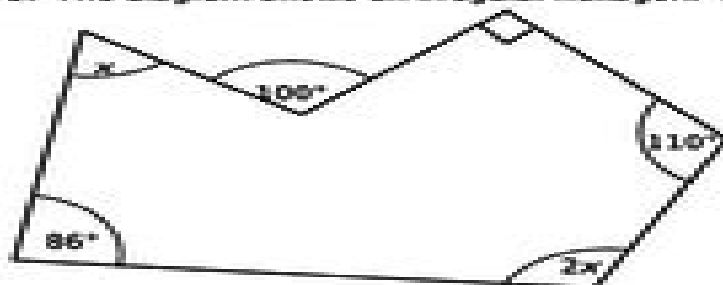
Reason(s) _____

[4]

2. The size of each interior angle in a regular polygon is 165° . Find the number of sides of the polygon.

[2]

3. The diagram shows an irregular hexagon. Calculate the value of x .



[3]

4. Expand and simplify:

(a) $6x + (x + 3)(x + 4)$

(b) $(x - 3)^2(x + 2)$

[2]

Igcse Grade Maths Test Papers Polygons

SJ Ball



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Core Mathematics for IGCSE David Rayner, 2000 This text offers key facts worked examples international contexts questions including those from past exam papers in built revision and full coverage of IGCSE syllabuses for secondary maths pupils in overseas schools taking IGCSE **Key Maths GCSE** , 2001 Developed for the AQA Specification revised for the new National Curriculum and the new GCSE specifications The Teacher File contains detailed support and guidance on advanced planning points of emphasis key words notes for the non specialist useful supplementary ideas and homework sheets **Similar Polygons** Alpha & Omega Publishing, 2001-03-01 **Moufang Polygons** Jacques Tits, Richard Weiss, 2014-01-15 **A Panoply of Polygons** Claudi Alsina, Roger B. Nelsen, 2023-01-30 A Panoply of Polygons presents and organizes hundreds of beautiful surprising and intriguing results about polygons with more than four sides A Cornucopia of Quadrilaterals a previous volume by the same authors thoroughly explored the properties of four sided polygons This panoply consists of eight chapters one dedicated to polygonal basics the next ones dedicated to pentagons hexagons heptagons octagons and many sided polygons Then miscellaneous classes of polygons are explored e g lattice rectilinear zonogons cyclic tangential and the final chapter 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

Faculty Advancement in Mathematics Faculty Advancement in Mathematics Project, Reuben Farley, Bob Johnson, Consortium for Mathematics and Its Applications (U.S.), 1993 **Packages and polygons : [student book for grades 7/8]** Mieke Abels, 1996 *Regular Polygons* Djura Paunic, 2025-05-15 **Polygons and Polyhedra** John James Simpson, 1975 [Understanding Polygons and Polyhedra with Googolplex](#) Sheldon G. Berman, Harry Erickson, 1988-01-01

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