# GCSE (9-1) Mathematics Geometrical Reasoning 

Triangles

$a+b+c=180$
Angles in a triangle add up to 180


Angles in an equilateral triangle are equal


Base angles of an isosceles triangle are equal


An exterior angle (of a triangle) is equal to the sum of the interior opposite angles
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## Quadrilaterals


$a+b+c+d=360$

Angles in a quadrilateral add up to 360


Alternate segment theorem


Tangents to a circle from an external point are equal in length

A tangent to a circle is perpendicular (or $90{ }^{\circ}$ to the radius.


