

# Proof of the Circle Theorems

## Question Paper

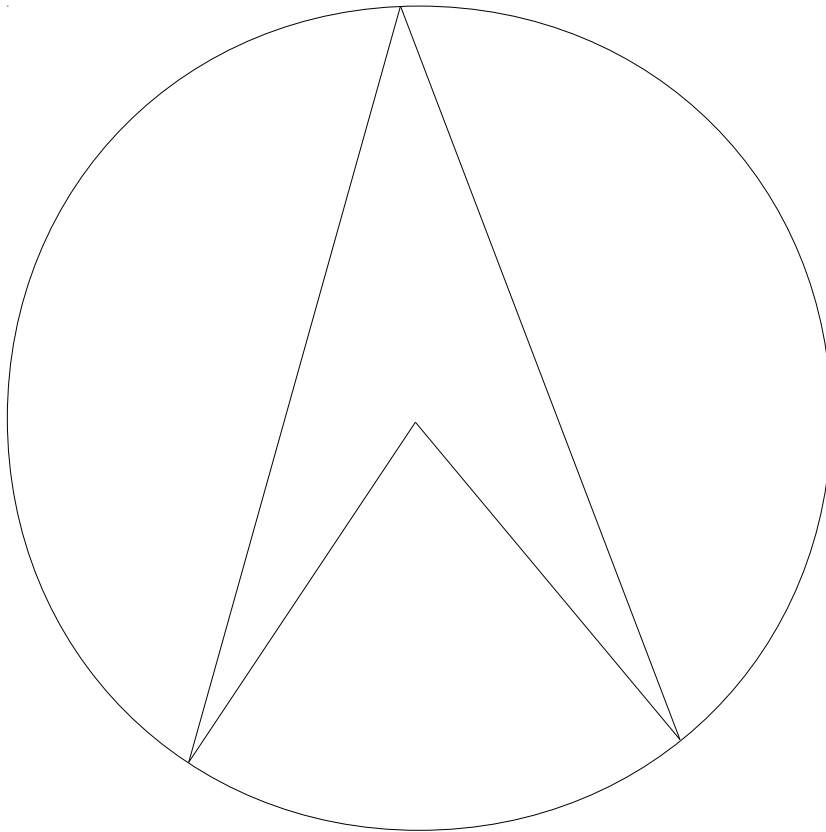
Level	GCSE
Subject	Maths
Exam Board	Edexcel GCSE
Topic	Proof of the Circle Theorems
Grade Level	Grade 8/9
Booklet	Question Paper

**Time Allowed:** 35 minutes

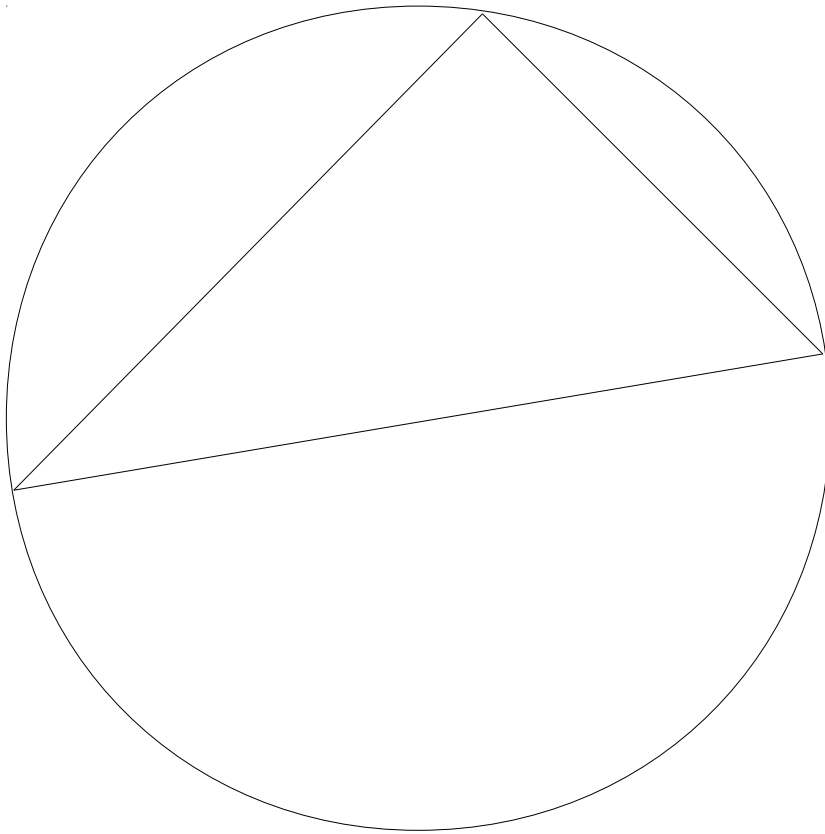
**Score:** /29

**Percentage:** /100

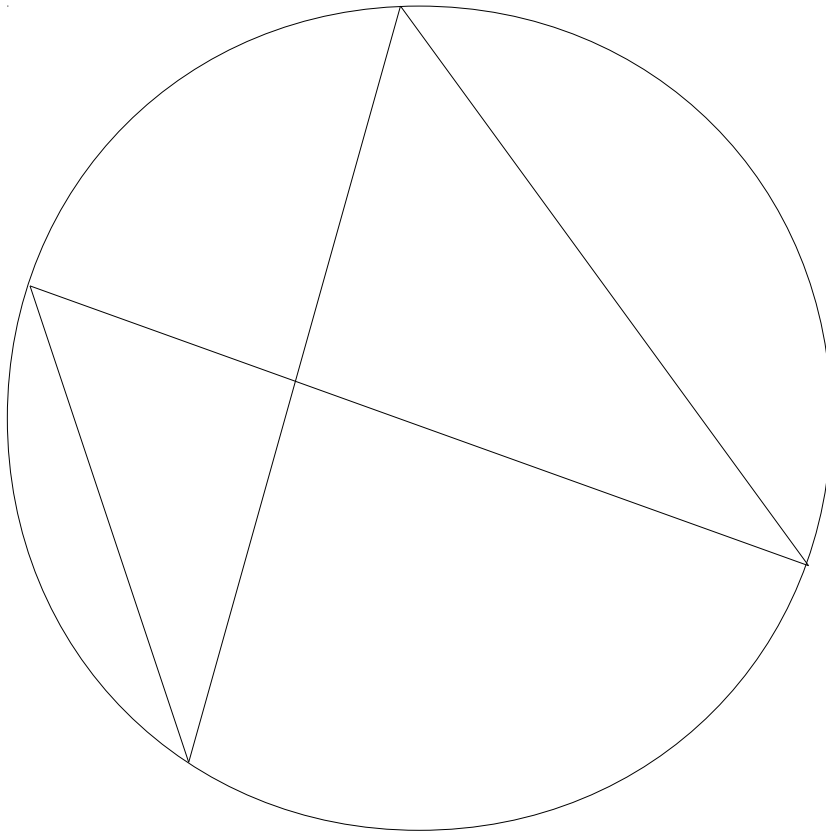
**Grade Boundaries:**



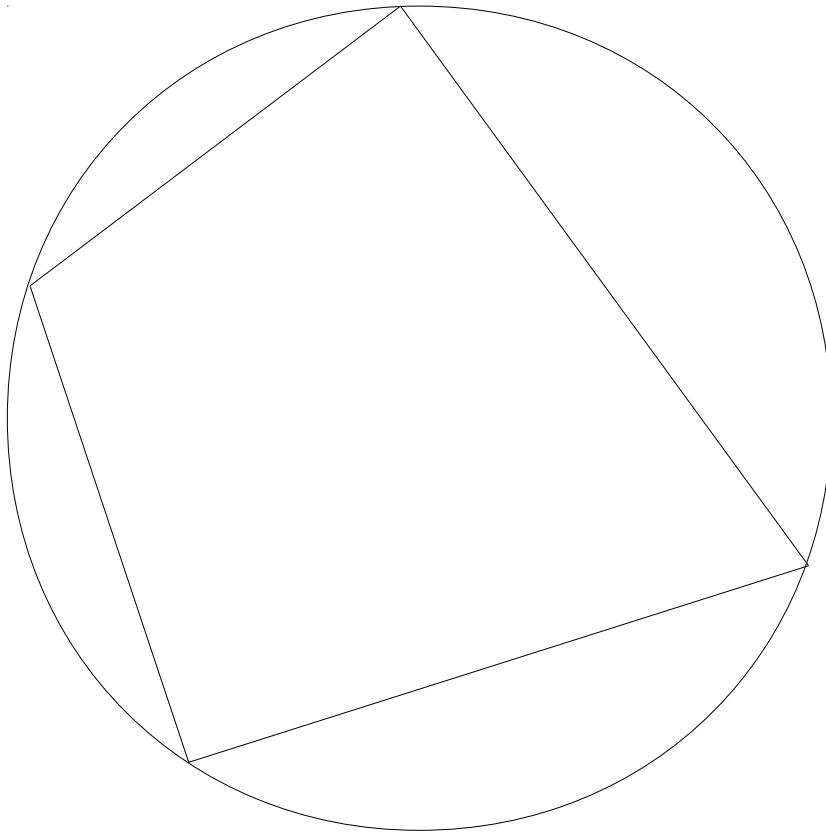
Prove that the angle subtended by an arc at the centre of a circle is twice the angle subtended at any point on the circumference



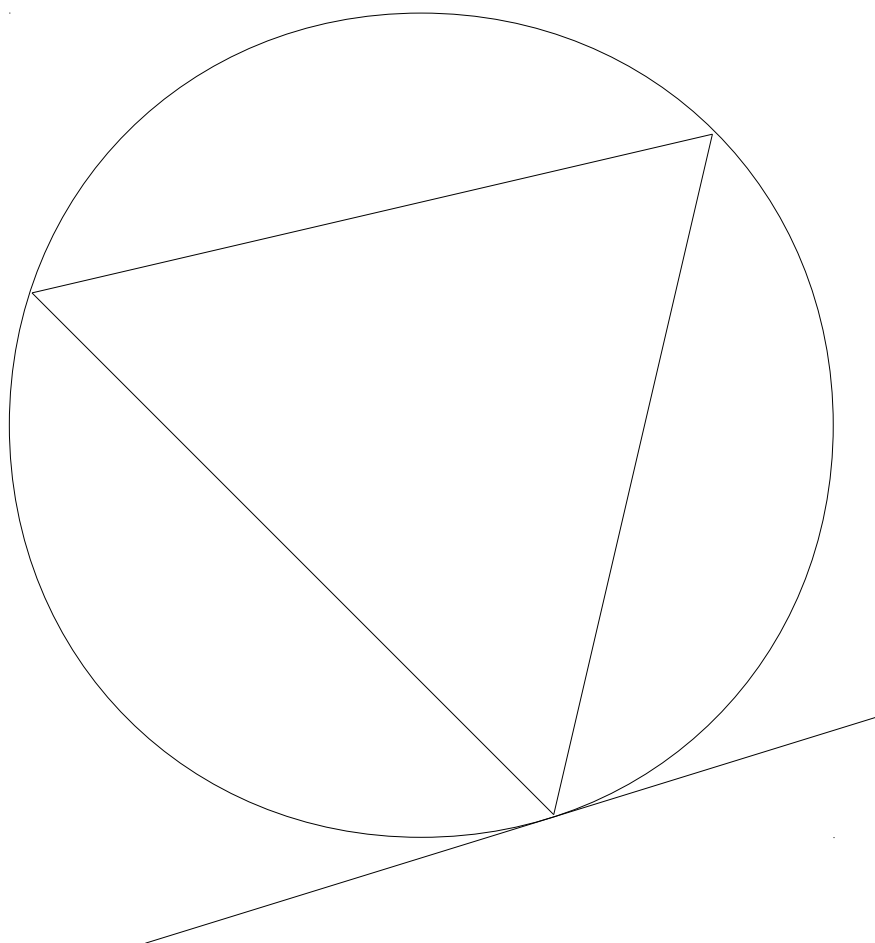
Prove the angle subtended at the circumference by a semicircle is a right angle



Prove that angles in the same segment are equal



Prove that opposite angles of a cyclic quadrilateral sum to  $180^\circ$



Prove the alternate segment theorem