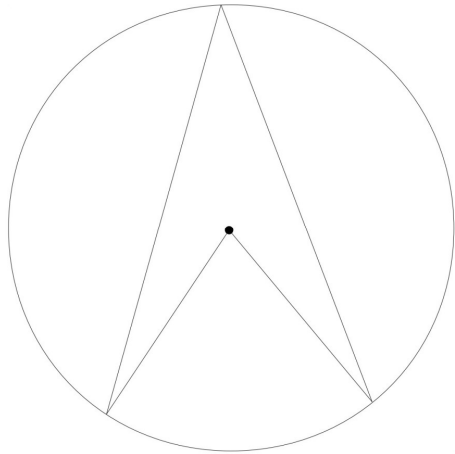


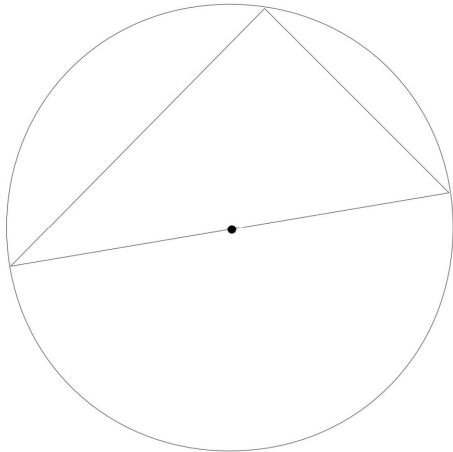
1



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

(4 marks)

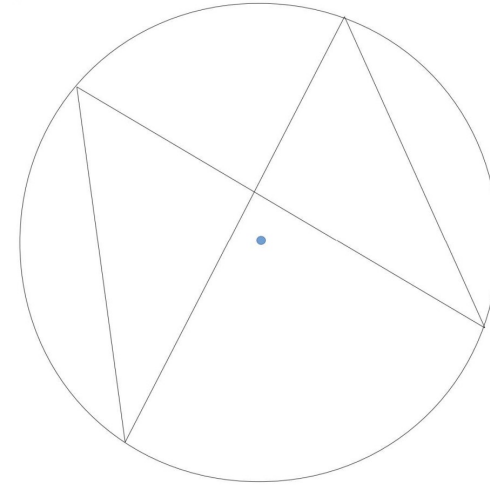
2



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

(4 marks)

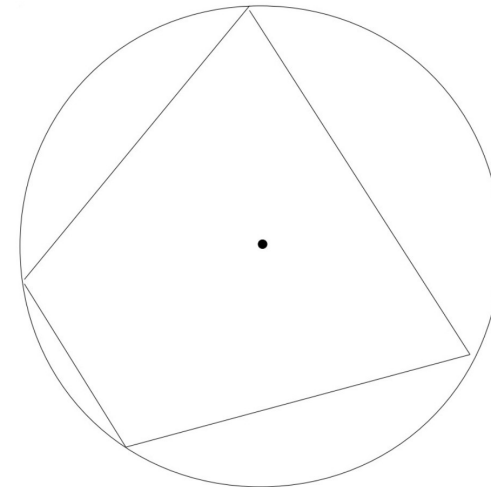
3



Prove that angles in the same segment are equal

(4 marks)

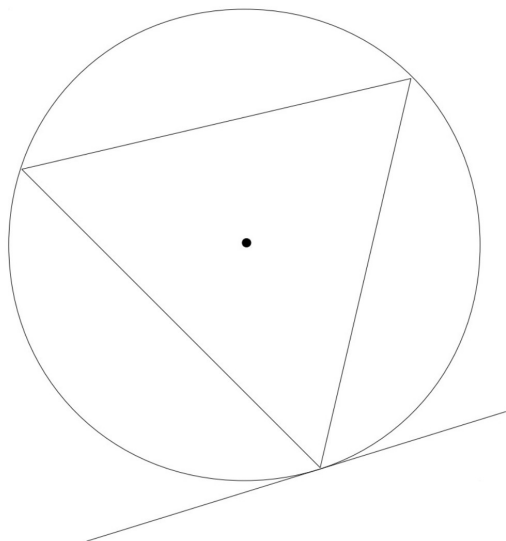
4



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

(4 marks)

5



Prove the alternate segment theorem

(4 marks)