

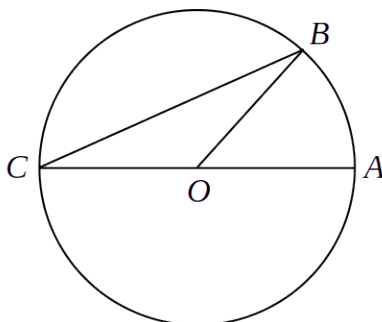
Mathematics 2260H – Geometry I: Euclidean Geometry

TRENT UNIVERSITY, Winter 2024

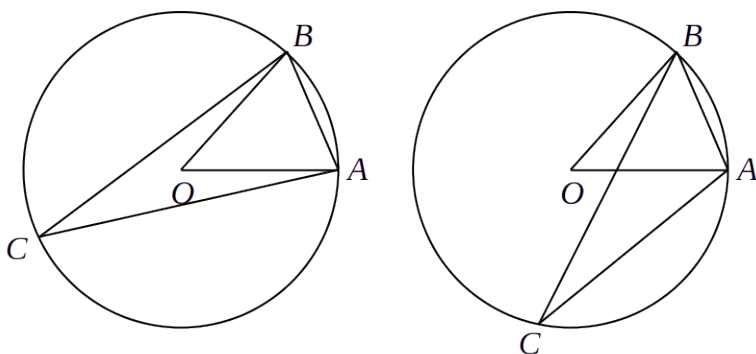
Assignment #5

Inscribed Angles

Due\* just before midnight on Friday, 16 February.



1. Suppose  $O$  is the centre of a circle,  $AC$  is a diameter of the circle, and  $B$  is any other point on the circle. Show that  $\angle AOB = 2\angle ACB$ . [4]



2. Suppose  $O$  is the centre of a circle,  $AB$  is any chord of the circle, and  $C$  is any other point on the circle. Show that  $\angle AOB = 2\angle ACB$ . [6]

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\* You should submit your solutions via Blackboard's Assignments module, preferably as a single pdf. If submission via Blackboard fails, please submit your work to your instructor by email or on paper.