

Mathematics 2260H – Geometry I: Euclidean geometry

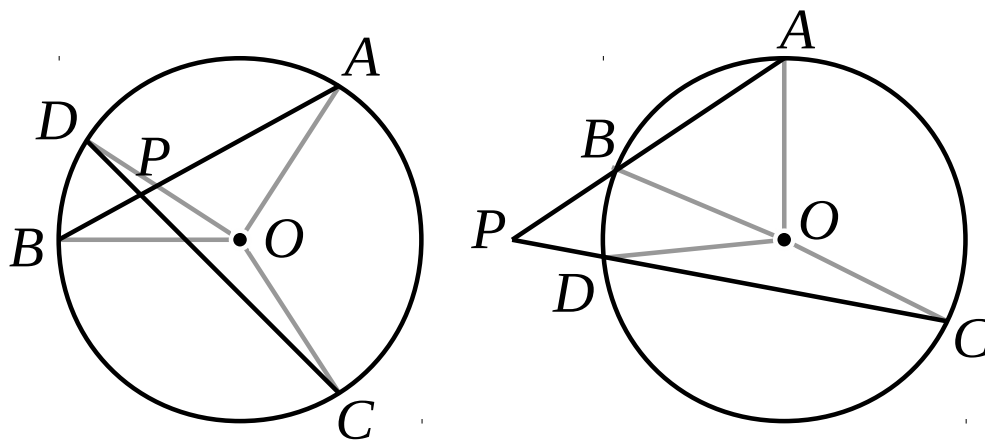
TRENT UNIVERSITY, Fall 2018

Assignment #8

Internal and External Angles

Due on Friday, 8 November.

Suppose the chords AB and CD of a circle with centre O intersect at a point P that is not on the circle.



1. Show that $\angle APC = \frac{1}{2}(\angle AOC + \angle BOD)$ if P is inside the circle. [5] [5]
2. Show that $\angle APC = \frac{1}{2}(\angle AOC - \angle BOD)$ if P is outside the circle. [5]