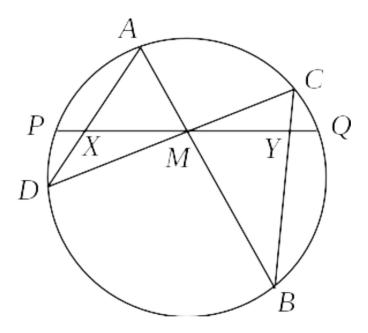
Mathematics 2260H – Geometry I: Euclidean geometry

TRENT UNIVERSITY, Fall 2018

Assignment #Extra Flutter by the Circle

Due on Wednesday, 21 April.

THE BUTTERFLY THEOREM. Suppose M is the midpoint of a chord PQ of a circle and AB and CD are two other chords that pass through M. Let AD and BC intersect PQ at X and Y, respectively. Then M is also the midpoint of XY.



1. Prove the Butterfly Theorem. [10]

Hint: Cross ratios, angles, and triangles, too!