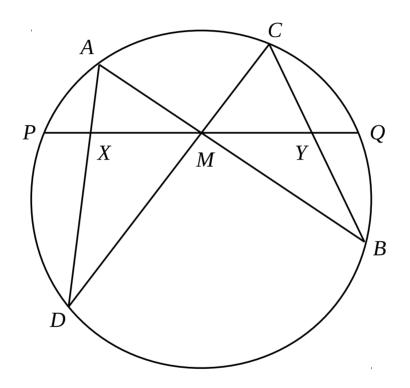
## Mathematics 2260H – Geometry I: Euclidean geometry TRENT UNIVERSITY, Winter 2014

## Assignment #6 The Flutterby Butterfly Theorem Due on Friday, 4 April, 2014.

One more go at circles and chords:

Butterfly Theorem: Suppose PQ is a chord of a circle, M is the midpoint of PQ, AB and CD are two other chords of the circle that pass through M, and suppose AD and BC meet PQ in X and Y respectively. Then M is the midpoint of XY.



1. Prove the Butterfly Theorem. [10]

NOTE: The Butterfly Theorem seems to have been so named because part of the diagram resembles a butterfly.