

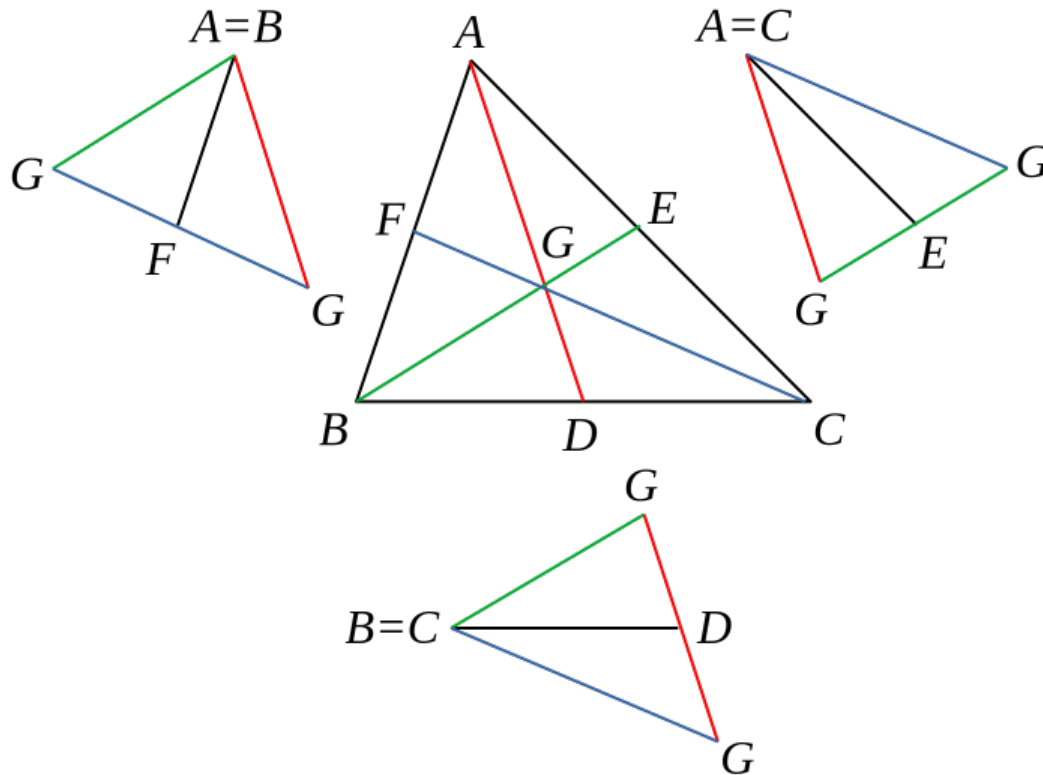
Mathematics 2260H – Euclidean Geometry

TRENT UNIVERSITY, Winter 2026

Assignment #9

Sallows' Triangle Theorem

Due on Friday, 20 March.\*



SALLOWS' TRIANGLE THEOREM. (Lee Sallows, 2014) For any triangle dissected along its medians, rotating the smaller triangles adjacent to each side of the original triangle about the midpoint of said side yields three congruent triangles.

1. Prove Sallows' Triangle Theorem. [10]

NOTE. Lee Sallows (b. 1944) is an amateur mathematician who has made notable contributions in "recreational mathematics". He even has a Wikipedia article about him.

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\* Please submit your solutions, preferably as a single pdf, via Blackboard's Assignments module. If that fails, please submit them to the instructor on paper or via email to [sbilaniuk@trentu.ca](mailto:sbilaniuk@trentu.ca) as soon as you can.