

Mathematics 2260H – Euclidean Geometry

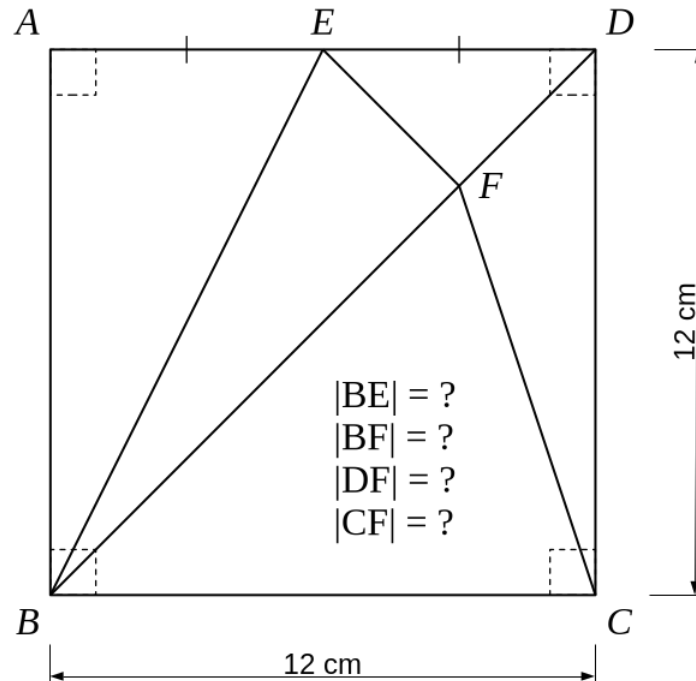
TRENT UNIVERSITY, Winter 2026

Assignment #2e

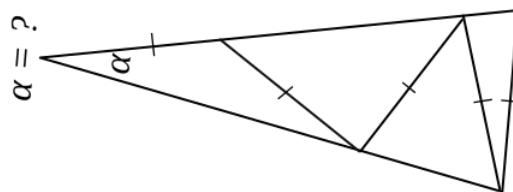
Something Similar

*Due on Monday, 23 February.**

This is an extra assignment that will go into the pool from which the best ten are chosen to count towards the final mark. It's also something that is hopefully fun to do over Reading Week. :-)



1. A square with sides of length 12 cm is subdivided as in the diagram above. Determine the lengths of each of BE , BF , CF , and DF . [5]



2. An isosceles triangle is subdivided into isosceles triangles as in the diagram above. What is the angle α at the tip of the original triangle? [5]

* 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 as soon as you can.