

Mathematics 2260H – Geometry I: Euclidean geometry

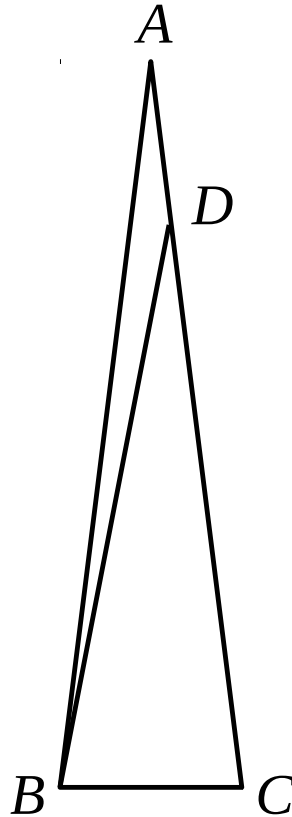
TRENT UNIVERSITY, Fall 2016

Assignment #3

Problems worthy of attack / Prove their worth by hitting back.*

Due on Wednesday, 12 October.

Suppose $\triangle ABC$ has $\angle ABC = \angle ACB = 80^\circ$ and $\angle BAC = 20^\circ$. Let D be the point on AC between A and C such that $AD = BC$.



1. Determine $\angle ADB$ anyway you like. [3]
2. Determine $\angle ADB$ without using trigonometry. (You may use Postulate V or an equivalent, if you wish.) [7]

* A grook by Piet Hein.