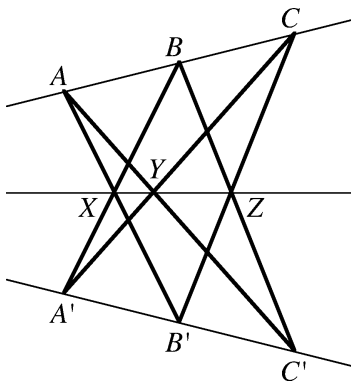


Mathematics 226H – Geometry I: Euclidean geometry
TRENT UNIVERSITY, Fall 2006

Problem Set #10

Due in class on Friday, 1 December, 2006.

1. Prove Pappus' Theorem (Theorem 4.16 in the text) *without* using Menelaus' Theorem. [10]



I think that I shall never see
A space as lovely as the tree.
A tree, where cycles don't occur,
A path-connected graph, for sure.
To single points it may retract—
To *any* of its points, in fact.
Each graph must have a group that's free,
But nothing's simpler than a tree.

By Stephanie Wukovitz; posted to sci.math on 1992.04.23.

How computer scientists look at trees:

