

Mathematics-Science 380 – History of Mathematics

Trent University, 2006–2007

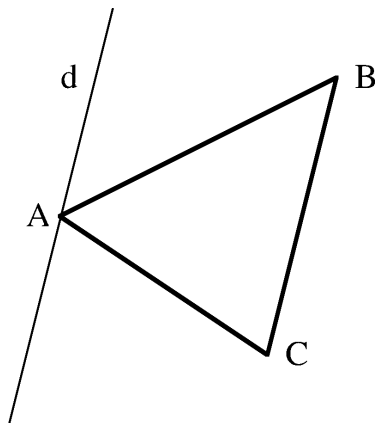
Assignment #3

Due in the week of 16 October, 2006.

1. Chapter 5 Exercise 1 [7]

2. Chapter 6 Exercise 1 [7]

Here's a diagram for this exercise:



3. Chapter 7 Exercise 1 [6]

“Euclid I-6”

Given a triangle,
Points A , B , C ,
Where two of the angles
Completely agree,
Are the opposite sides
In agreement aussi?
Assume for the moment
That this isn't true,
Angles B and C equal,
But their sides don't too,
Then one must be bigger,
– AB will do.
From AB cut DB ,
The same as AC ,
Then connect C and D ,
To make CD – and see,
That by Euclid I-4
There's a congruency!
 ABC and DBC ,
Cannot be the same,
Euclid's fifth notion
Is the thing to blame.
Thus AB and AC ,
Are proven the same!

Kelly Moncrief

[A solution to the Bonus Assignment in MATH 380 in 2002-2003.]