

Mathematics 2200H – Mathematical Reasoning

TRENT UNIVERSITY, Fall 2017

Assignment #7

And now for something completely different!

Due on Thursday, 2 November.

1. Write a poem stating a mathematical fact and giving its proof. [10]

Here is an example of such a poem:

“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 [MATH 380, 2002-2003.]