

Math 366: Comments on Homework 9

from the grader

April 11, 2003

Major Exercise 3:

In hyperbolic geometry, the following statement is *not true*:

If $\ell_1 \parallel \ell_3$ and $\ell_2 \parallel \ell_3$ then either $\ell_1 \parallel \ell_2$ or $\ell_1 = \ell_2$.

Try to think of a counterexample in the Hyperbolic plane.