

# MTH 520/622: Introduction to hyperbolic geometry

## Homework II

(Due 08/09)

1. Show that  $\text{PGL}(2, \mathbb{C}) = \text{PSL}(2, \mathbb{C})$ .
2. Prove the following assertions from the Lesson Plan: 2.1(ii), 2.1 (vii), 2.1(ix), 2.3(iii), 2.3(v), 2.3(ix)(c) & (x).