MATH 220A: MIDTERM EXAMINATION
NOVEMBER 2, 2017
DANIEL HALMRAST

Problem 1

Let G be a non-abelian group of order 26, and let $H \leq G$ with $|H| = 13$. Prove that each element of G which is not in H is of order 2. Deduce that if a, b are elements of G of orders 2 and 13 respectively, then $aba = b^{-1}$.