

Group theory – Hand in sheet 7

deadline: 23/Nov/10

1) Given a group G we can define a sequence of groups G_i as follows. We let $G_0 = G$ and define, for $i > 0$,

$$G_i = G_{i-1}/Z_{G_{i-1}}$$

Compute this sequence for \mathbb{Z}_n , A_n ($n > 3$), \mathbb{H} , the quaternion group with 8 elements, D_{10} and D_8 .