

SUBGROUPS

SYMMETRY AND ESCHER, EXERCISE SET 3 (LECTURE 2)

Exercise 1. Find all subgroups of

- (1) D_3 ,
- (2) D_4 .

Definition 1. A subgroup $H \subset G$ is called *normal* if for any $h \in H$ and any $g \in G$ we have $g^{-1}hg \in H$.

Exercise 2. Identify which subgroups of

- (1) D_3
 - (2) D_4
- are normal.