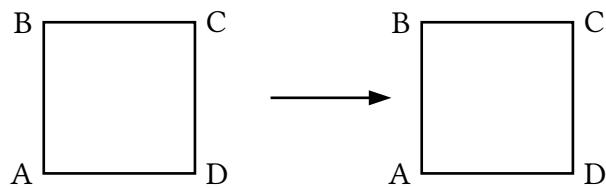


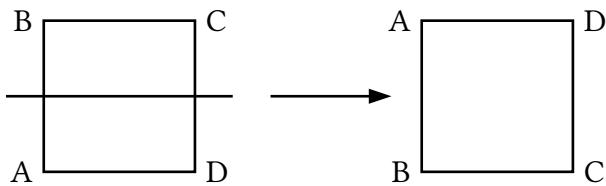
## 1. Exercise 1.7

### 1.1. symmetries

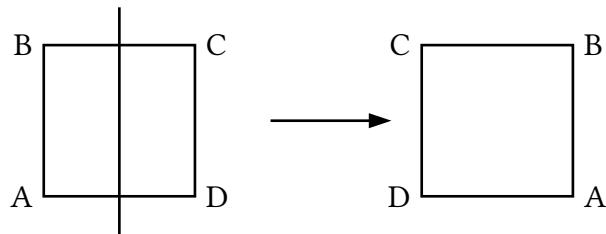
#### 1.1.1. $E$



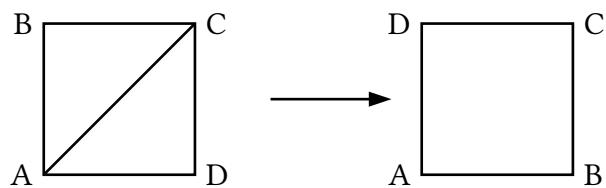
#### 1.1.2. $T_1$



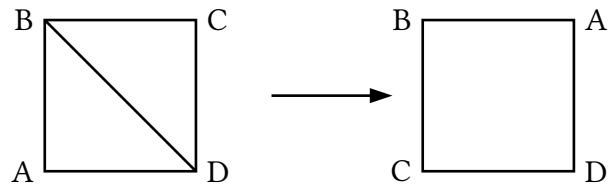
#### 1.1.3. $T_2$



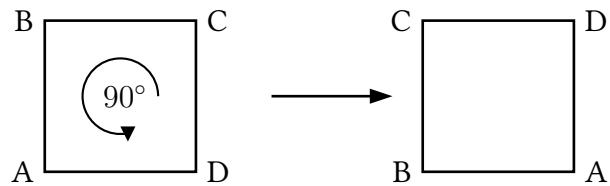
#### 1.1.4. $D_1$



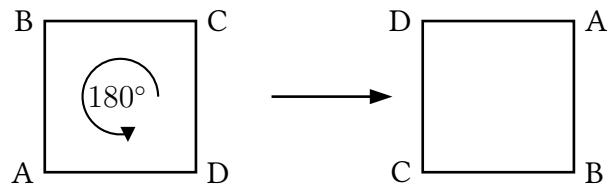
**1.1.5.**  $D_2$



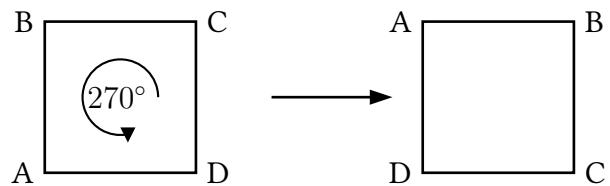
**1.1.6.**  $R_1$



**1.1.7.**  $R_2$



**1.1.8.**  $R_3$



## 1.2. Order

The order (as you can count) is 8

### 1.3. Multiplication Table

	$E$	$T_1$	$T_2$	$D_1$	$D_2$	$R_1$	$R_2$	$R_3$
$E$	$E$	$T_1$	$T_2$	$D_1$	$D_2$	$R_1$	$R_2$	$R_3$
$T_1$	$T_1$	$E$	$R_2$	$R_3$	$R_1$	$D_2$	$T_2$	$D_1$
$T_2$	$T_2$	$R_2$	$E$	$R_1$	$R_3$	$D_1$	$T_1$	$D_2$
$D_1$	$D_1$	$R_1$	$R_3$	$E$	$R_2$	$T_1$	$D_2$	$T_2$
$D_2$	$D_2$	$R_3$	$R_1$	$R_2$	$E$	$T_2$	$D_1$	$T_1$
$R_1$	$R_1$	$D_1$	$D_2$	$T_2$	$T_1$	$R_2$	$R_3$	$E$
$R_2$	$R_2$	$T_2$	$T_1$	$D_2$	$D_1$	$R_3$	$E$	$R_1$
$R_3$	$R_3$	$D_2$	$D_1$	$T_1$	$T_2$	$E$	$R_1$	$R_2$

### 1.4. Subgroups

$$\{E, T_1, T_2, D_1, D_2, R_1, R_2, R_3\}$$

