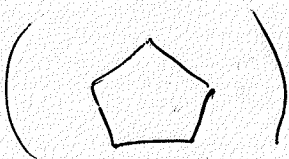
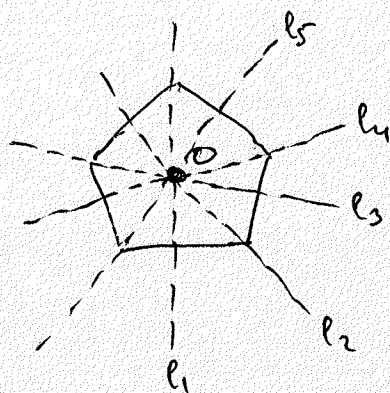


Symm ()

has 5 reflections in lines:

l_1, l_2, l_3, l_4, l_5

(lines contain vertex and midpoint of opposite edge)



and 5 rotations about O, the common intersection of all the lines l_1, \dots, l_5 . Angles of rotation are $\frac{2\pi}{5} + \text{multiples thereof}$.

$R =$ rotation about O through angle $\frac{2\pi}{5}$

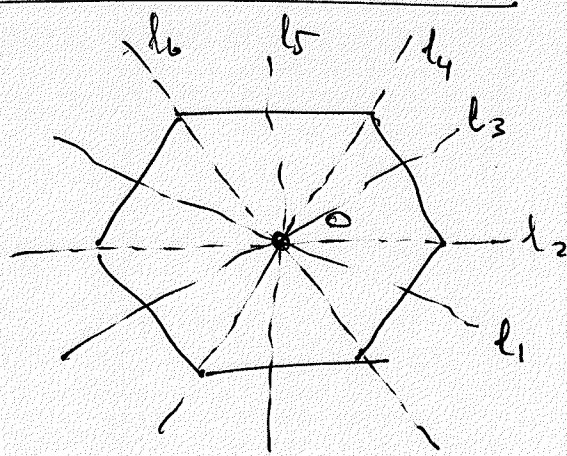
elements are $R, R^2, R^3, R^4, R^5 = \mathbb{1}$ (identity)

Symm ()

has 6 reflections in lines

l_1, \dots, l_6

(3 lines contain opposite vertices (l_2, l_4, l_6))
(3 lines contain midpoint of opposite edges) (l_1, l_3, l_5)



and 6 rotations about O

If $R =$ rotation about O through angle $\frac{2\pi}{6}$, then 6 rotations

are $R, R^2, R^3, R^4, R^5, R^6 = \text{identity}$.