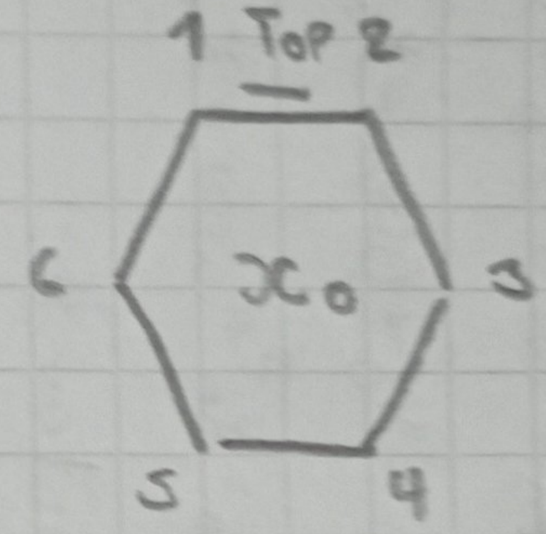
Juan Mahecha

Grupo de simetrias de un hexagono

X_0	1	2	3	4	5	6	0°
X_1	2	3	4	5	6	1	60°
X_2	3	4	5	6	1	2	120°
X_3	4	5	6	1	2	3	180°
X_4	5	6	1	2	3	4	240°
X_5	6	1	2	3	4	5	300°



Y_0	5	4	3	2	1	6
Y_1	4	3	2	1	6	5
Y_2	3	2	1	6	5	4
Y_3	2	1	6	5	4	3
Y_4	1	6	5	4	3	2
Y_5	6	5	4	3	2	1

	x_0	x_1	x_2	x_3	x_4	x_5	y_0	y_1	y_2	y_3	y_4	y_5
x_0	x_0	x_1	x_2	x_3	x_4	x_5	y_0	y_1	y_2	y_3	y_4	y_5
x_1	x_1	x_2	x_3	x_4	x_5	x_0	y_1	y_2	y_3	y_4	y_5	y_0
x_2	x_2	x_3	x_4	x_5	x_0	x_1	y_2	y_3	y_4	y_5	y_0	y_1
x_3	x_3	x_4	x_5	x_0	x_1	x_2	y_3	y_4	y_5	y_0	y_1	y_2
x_4	x_4	x_5	x_0	x_1	x_2	x_3	y_4	y_5	y_0	y_1	y_2	y_3
x_5	x_5	x_0	x_1	x_2	x_3	x_4	y_5	y_0	y_1	y_2	y_3	y_4
y_0	y_0	y_5	y_4	y_3	y_2	y_1	x_0	x_5	x_4	x_3	x_2	x_1
y_1	y_1	y_0	y_5	y_4	y_3	y_2	x_1	x_0	x_5	x_4	x_3	x_2
y_2	y_2	y_1	y_0	y_5	y_4	y_3	x_2	x_1	x_0	x_5	x_4	x_3
y_3	y_3	y_2	y_1	y_0	y_5	y_4	x_3	x_2	x_1	x_0	x_5	x_4
y_4	y_4	y_3	y_2	y_1	y_0	y_5	x_4	x_3	x_2	x_1	x_0	x_5
y_5	y_5	y_4	y_3	y_2	y_1	y_0	x_5	x_4	x_3	x_2	x_1	x_0

$X_0 \cdot X_0 = X_0^\circ + X_0^\circ$

$X_0 \cdot Y_0 = X_0^\circ + X_0^\circ + \text{Girar}$

$Y_0 \cdot Y_0 = X_0^\circ + \text{Girar} - X_0^\circ + \text{Girar}$

$Y_0 \cdot X_0 = X_0^\circ + \text{Girar} + X_0^\circ$

importante:

Girar siempre donde este 1 y 2 (Top)

ej)