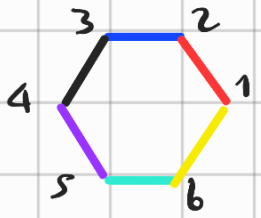
Grupo de Simetría de un hexágono

El grupo de simetría de un hexágono regular es de órden 12, el grupo diedro D_6



Para obtener las rotaciones del grupo, giramos la figura $\frac{2\pi}{6}$

$$G_1 = \{1, 2, 3, 4, 5, 6\}$$
$$G_2 = \{6, 1, 2, 3, 4, 5\}$$
$$G_3 = \{5, 6, 1, 2, 3, 4\}$$
$$G_4 = \{4, 5, 6, 1, 2, 3\}$$
$$G_5 = \{3, 4, 5, 6, 1, 2\}$$
$$G_6 = \{2, 3, 4, 5, 6, 1\}$$

$$G_7 = \{1, 6, 5, 4, 3, 2\}$$
$$G_8 = \{2, 1, 6, 5, 4, 3\}$$
$$G_9 = \{3, 2, 1, 6, 5, 4\}$$
$$G_{10} = \{4, 3, 2, 1, 6, 5\}$$
$$G_{11} = \{5, 4, 3, 2, 1, 6\}$$
$$G_{12} = \{6, 5, 4, 3, 2, 1\}$$

	G_1	G_2	G_3	G_4	G_5	G_6	G_7	G_8	G_9	G_{10}	G_{11}	G_{12}
G_1	G_1	G_2	G_3	G_4	G_5	G_6	G_7	G_8	G_9	G_{10}	G_{11}	G_{12}
G_2	G_2	G_3	G_4	G_5	G_6	G_1	G_8	G_9	G_{10}	G_{11}	G_{12}	G_7
G_3	G_3	G_4	G_5	G_6	G_1	G_2	G_9	G_{10}	G_{11}	G_{12}	G_7	G_8
G_4	G_4	G_5	G_6	G_1	G_2	G_3	G_{10}	G_{11}	G_{12}	G_7	G_8	G_9
G_5	G_5	G_6	G_1	G_2	G_3	G_4	G_{11}	G_{12}	G_7	G_8	G_9	G_{10}
G_6	G_6	G_1	G_2	G_3.	G_4	G_5	G_{12}	G_7	G_8	G_9	G_{10}	G_{11}
G_7	G_7	G_{12}	G_{11}	G_{10}	G_9	G_8	G_1	G_6	G_5	G_4	G_3	G_2
G_8	G_8	G_7	G_{12}	G_{11}	G_{10}	G_9	G_2	G_1	G_6	G_5	G_4	G_3
G_9	G_9	G_8	G_7	G_{12}	G_{11}	G_{10}	G_3	G_2	G_1	G_6	G_5	G_4
G_{10}	G_{10}	G_9	G_8	G_7	G_{12}	G_{11}	G_4	G_3	G_2	G_1	G_6	G_5
G_{11}	G_{11}	G_{10}	G_9	G_8	G_7	G_{12}	G_5	G_4	G_3	G_2	G_1	G_6
G_{12}	G_{12}	G_{11}	G_{10}	G_9	G_8	G_7	G_6	G_5	G_4	G_3	G_2	G_1