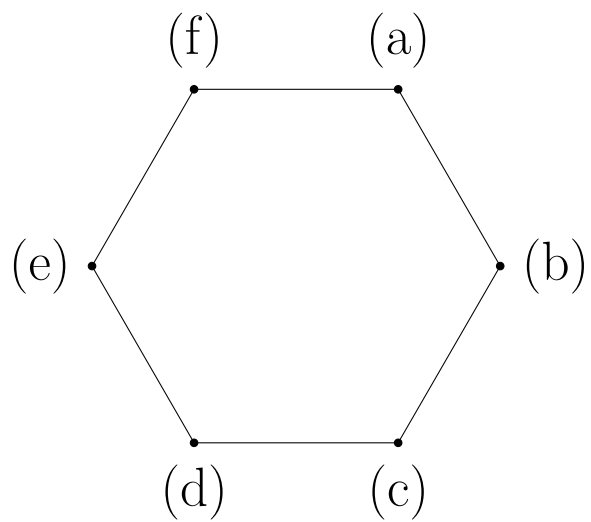


Simetrías del hexágono

Tarea Febrero 23

Juliana Parra Caro



$$V = a, b, c, d, e, f$$

$$E = (a,b), (b,c), (c,d), (d,e), (e,f), (f,a)$$

1	a	b	c	d	e	f
2	b	c	d	e	f	a
3	c	d	e	f	a	b
4	d	e	f	a	b	c
5	e	f	a	b	c	d
6	f	a	b	c	d	e
7	f	e	d	c	b	a
8	e	d	c	b	a	f
9	d	c	b	a	f	e
10	c	b	a	f	e	d
11	b	a	f	e	d	c
12	a	f	e	d	c	b

s_0	s_1	s_2	s_3	s_4	s_5	s_6	s_7	s_8	s_9	s_{10}	s_{11}	s_{12}
s_1	s_1	s_2	s_3	s_4	s_5	s_6	s_7	s_8	s_9	s_{10}	s_{11}	s_{12}
s_2	s_2	s_3	s_4	s_5	s_6	s_1	s_{12}	s_7	s_8	s_9	s_{10}	s_{11}
s_3	s_3	s_4	s_5	s_6	s_1	s_2	s_{11}	s_{12}	s_7	s_8	s_9	s_{10}
s_4	s_4	s_5	s_6	s_1	s_2	s_3	s_{10}	s_{11}	s_{12}	s_7	s_8	s_9
s_5	s_5	s_6	s_1	s_2	s_3	s_4	s_9	s_{10}	s_{11}	s_{12}	s_7	s_8
s_6	s_6	s_1	s_2	s_3	s_4	s_5	s_8	s_9	s_{10}	s_{11}	s_{12}	s_7
s_7	s_7	s_8	s_9	s_{10}	s_{11}	s_{12}	s_1	s_2	s_3	s_4	s_5	s_6
s_8	s_8	s_9	s_{10}	s_{11}	s_{12}	s_7	s_6	s_1	s_2	s_3	s_4	s_5
s_9	s_9	s_{10}	s_{11}	s_{12}	s_7	s_8	s_5	s_6	s_1	s_2	s_3	s_4
s_{10}	s_{10}	s_{11}	s_{12}	s_7	s_8	s_9	s_4	s_5	s_6	s_1	s_2	s_3
s_{11}	s_{11}	s_{12}	s_7	s_8	s_9	s_{10}	s_3	s_4	s_5	s_6	s_1	s_2
s_{12}	s_{12}	s_7	s_8	s_9	s_{10}	s_{11}	s_2	s_3	s_4	s_5	s_6	s_1

$$s_1 = \begin{pmatrix} a & b & c & d & e & f \\ a & b & c & d & e & f \end{pmatrix}$$

$$s_7 = \begin{pmatrix} a & b & c & d & e & f \\ f & e & d & c & b & a \end{pmatrix}$$

$$s_2 = \begin{pmatrix} a & b & c & d & e & f \\ b & c & d & e & f & a \end{pmatrix}$$

$$s_8 = \begin{pmatrix} a & b & c & d & e & f \\ a & f & e & d & c & b \end{pmatrix}$$

$$s_3 = \begin{pmatrix} a & b & c & d & e & f \\ c & d & e & f & b & a \end{pmatrix}$$

$$s_9 = \begin{pmatrix} a & b & c & d & e & f \\ e & d & c & b & a & f \end{pmatrix}$$

$$s_4 = \begin{pmatrix} a & b & c & d & e & f \\ d & e & f & a & b & c \end{pmatrix}$$

$$s_{10} = \begin{pmatrix} a & b & c & d & e & f \\ d & c & b & a & f & e \end{pmatrix}$$

$$s_5 = \begin{pmatrix} a & b & c & d & e & f \\ e & f & a & b & c & d \end{pmatrix}$$

$$s_{11} = \begin{pmatrix} a & b & c & d & e & f \\ c & b & a & f & e & d \end{pmatrix}$$

$$s_6 = \begin{pmatrix} a & b & c & d & e & f \\ f & a & b & c & d & e \end{pmatrix}$$

$$s_{12} = \begin{pmatrix} a & b & c & d & e & f \\ b & a & f & e & d & c \end{pmatrix}$$

Identidad = S₁

$$\begin{pmatrix} a & b & c & d & e & f \\ a & b & c & d & e & f \end{pmatrix} * \begin{pmatrix} a & b & c & d & e & f \\ b & c & d & e & f & a \end{pmatrix} = \begin{pmatrix} a & b & c & d & e & f \\ b & c & d & e & f & a \end{pmatrix}$$

$$\begin{pmatrix} a & b & c & d & e & f \\ a & b & c & d & e & f \end{pmatrix} * \begin{pmatrix} a & b & c & d & e & f \\ f & a & b & c & d & e \end{pmatrix} = \begin{pmatrix} a & b & c & d & e & f \\ f & a & b & c & d & e \end{pmatrix}$$