

IVÁN FELIPE AYALA RENGIFO

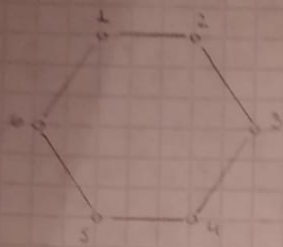
scribe

Escriba el grupo de las simetrías de un hexágono regular.

α = vertical Flip

τ = rotaciones

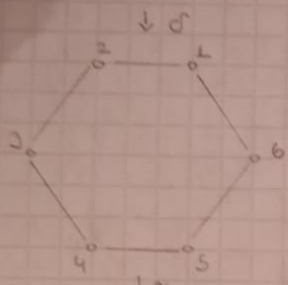
d = horizontal Flip



F_1

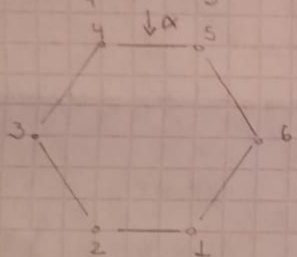
τ	1	2	3	4	5	6	$0^\circ/\beta$ = diagonal Flip
τ	2	3	4	5	6	1	$60^\circ/\epsilon$ = another diagonal Flip lol
τ	3	4	5	6	1	2	120°
τ	4	5	6	1	2	3	180°
τ	5	6	1	2	3	4	240°
τ	6	1	2	3	4	5	300°

$\tau(\odot) = \{a \rightarrow b \text{ para todo } a \text{ adj } b \in \odot \text{ en un solo sentido}\}$



F_2

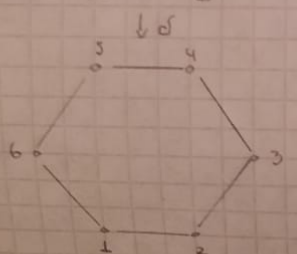
τ	1	6	5	4	3	2	0°
τ	6	5	4	3	2	1	60°
τ	5	4	3	2	1	6	120°
τ	4	3	2	1	6	5	180°
τ	3	2	1	6	5	4	240°
τ	2	1	6	5	4	3	300°



F_3

τ	4	5	6	1	2	3
τ						
τ						
τ						
τ						
τ						

$F_3 = F_1$



F_4

τ	5	4	3	2	1	6
τ						
τ						
τ						
τ						
τ						

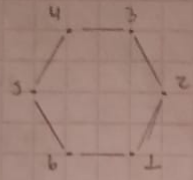
$F_4 = F_1$

$$\hookrightarrow \tau(\odot) = \tau(\alpha(\odot))$$

$$\tau(\alpha(\odot)) = \tau(\odot)$$

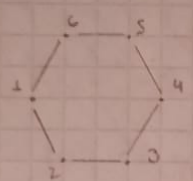
Scribe

• $\beta(\square) \rightarrow$



$$\tau(\beta(\square)) = \alpha(d(\square))$$

• $\epsilon(\square) \rightarrow$



$$\tau(\epsilon(\square)) = \alpha(d(\square))$$

	a	b	c	d	e	f	g	h	i	j	k	l	
a ← ORIGINAL	a	b	c	d	e	f	g	h	i	j	k	l	
b ← OR 60°	b	c	d	e	f	a	b	i	j	k	l	g	
c ← OR 120°	c	d	e	f	a	b	i	j	k	l	g	h	
d ← OR 180°	d	e	f	a	b	c	j	k	l	g	h	i	
e ← OR 240°	e	f	a	b	c	d	k	l	g	h	i	j	✓ GRUPO
f ← OR 300°	f	e	b	c	d	e	l	g	h	i	j	k	
g ← FLIP	g	h	i	j	k	l	a	b	c	d	e	f	
h ← FL 60°	h	i	j	k	l	g	b	c	d	e	f	a	
i ← FL 120°	i	j	k	l	g	h	i	d	e	f	a	b	
j ← FL 180°	j	k	l	g	h	i	j	e	f	a	b	c	
k ← FL 240°	k	l	g	h	i	j	e	f	a	b	c	d	
l ← FL 300°	l	g	h	i	j	k	f	a	b	c	d	e	