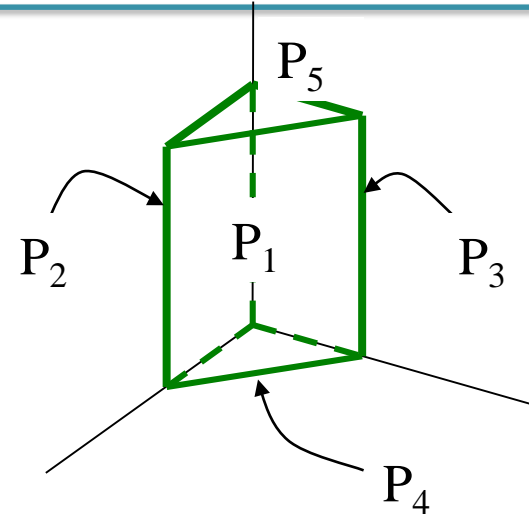
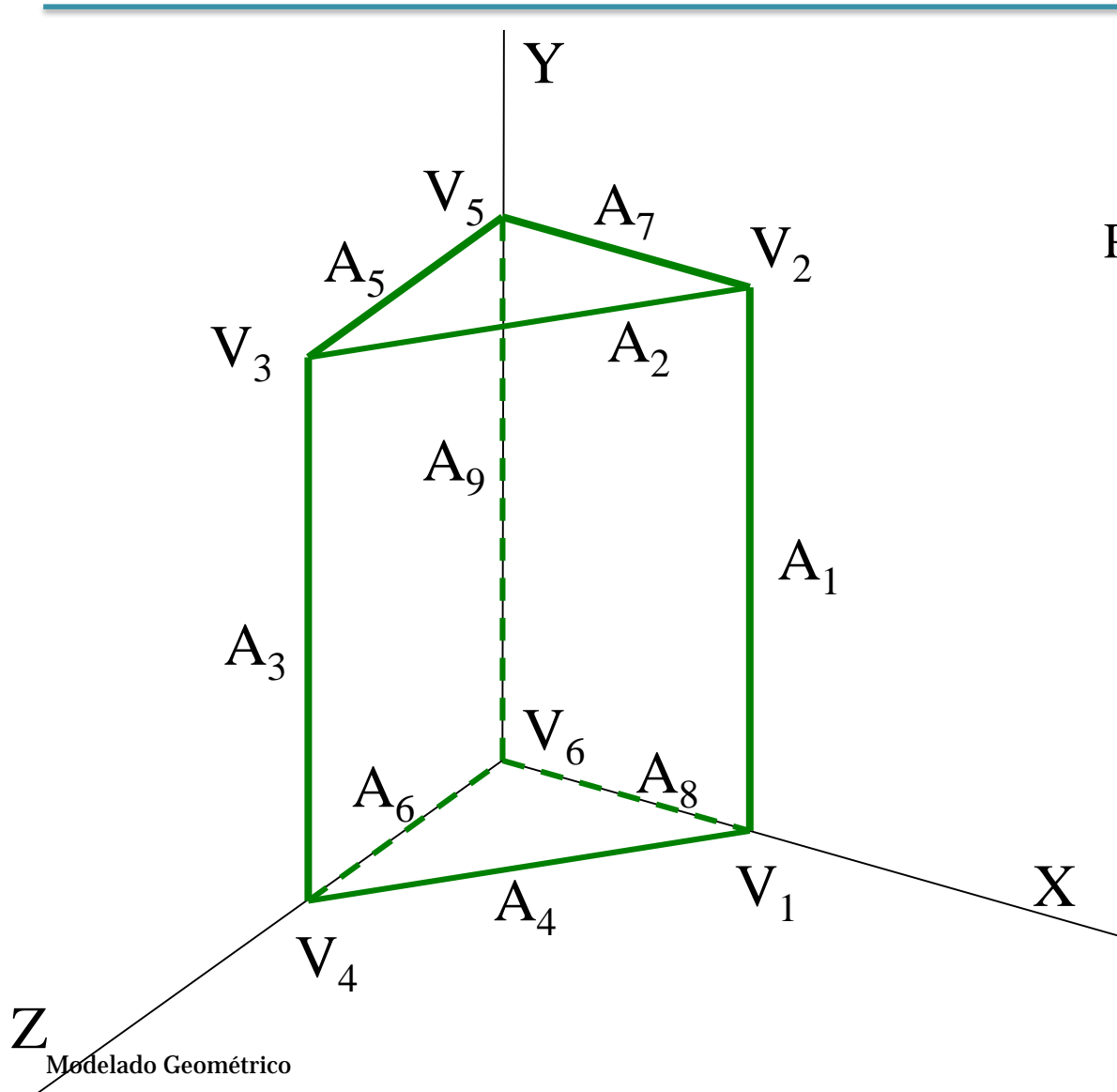


Modelado Geométrico

Ejercicios de clase

Obtener la representación explícita, de punteros a la lista de vértices y de punteros a la lista de aristas



$$V_1=(1,0,0)$$

$$V_2=(1,3,0)$$

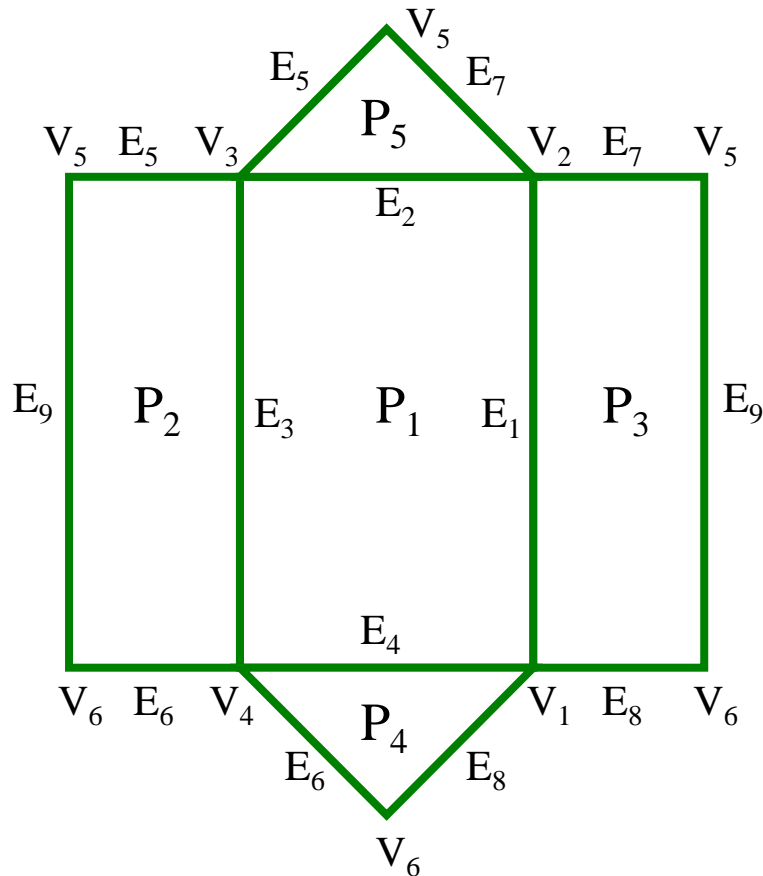
$$V_3=(0,3,1)$$

$$V_4=(0,0,1)$$

$$V_5=(0,3,0)$$

$$V_6=(0,0,0)$$

Modelado explícito (Anti-horario)



$$\begin{aligned} V_1 &= (1, 0, 0) & V_2 &= (1, 3, 0) \\ V_3 &= (0, 3, 1) & V_4 &= (0, 0, 1) \\ V_5 &= (0, 3, 0) & V_6 &= (0, 0, 0) \end{aligned}$$

$$P_1$$

1	0	0
1	3	0
0	3	1
0	0	1

$$P_2$$

0	0	1
0	3	1
0	3	0
0	0	0

$$P_3$$

0	0	0
0	3	0
1	3	0
1	0	0

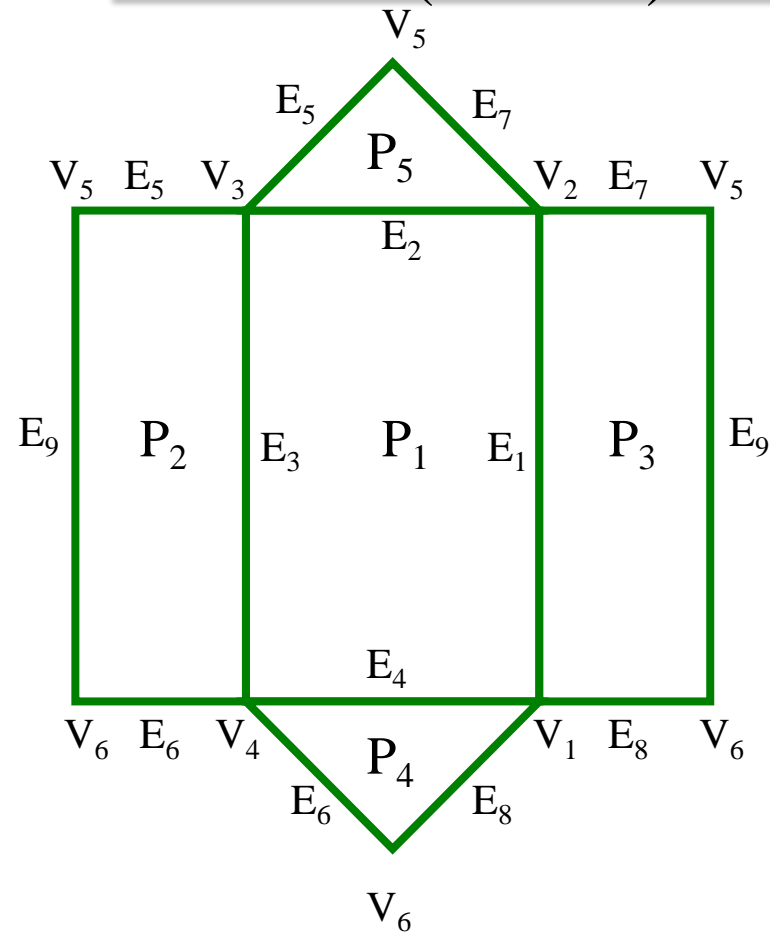
$$P_4$$

0	0	0
1	0	0
0	0	1

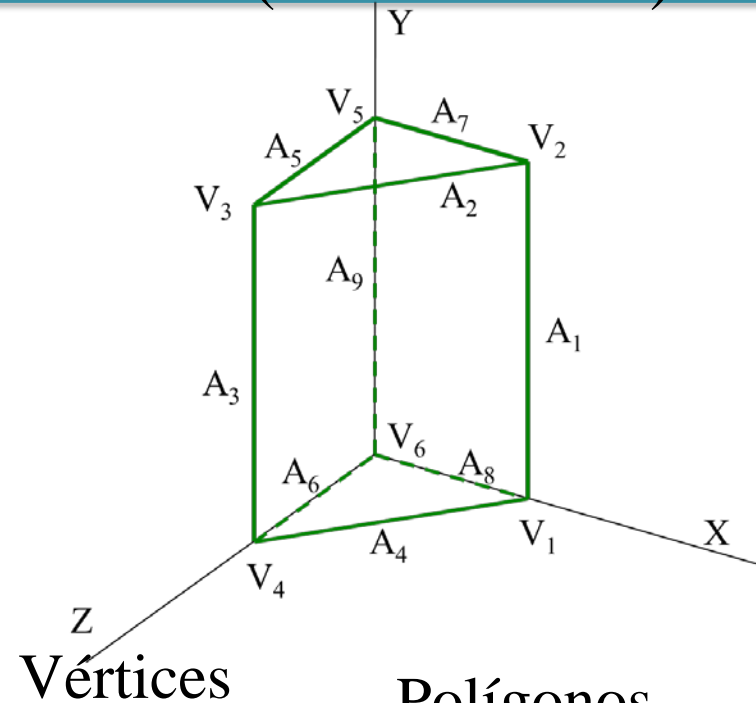
$$P_5$$

1	3	0
0	3	0
0	3	1

Punteros (índices) a lista de vértices (Anti-horario)



$V_1=(1,0,0)$ $V_2=(1,3,0)$
 $V_3=(0,3,1)$ $V_4=(0,0,1)$
 $V_5=(0,3,0)$ $V_6=(0,0,0)$



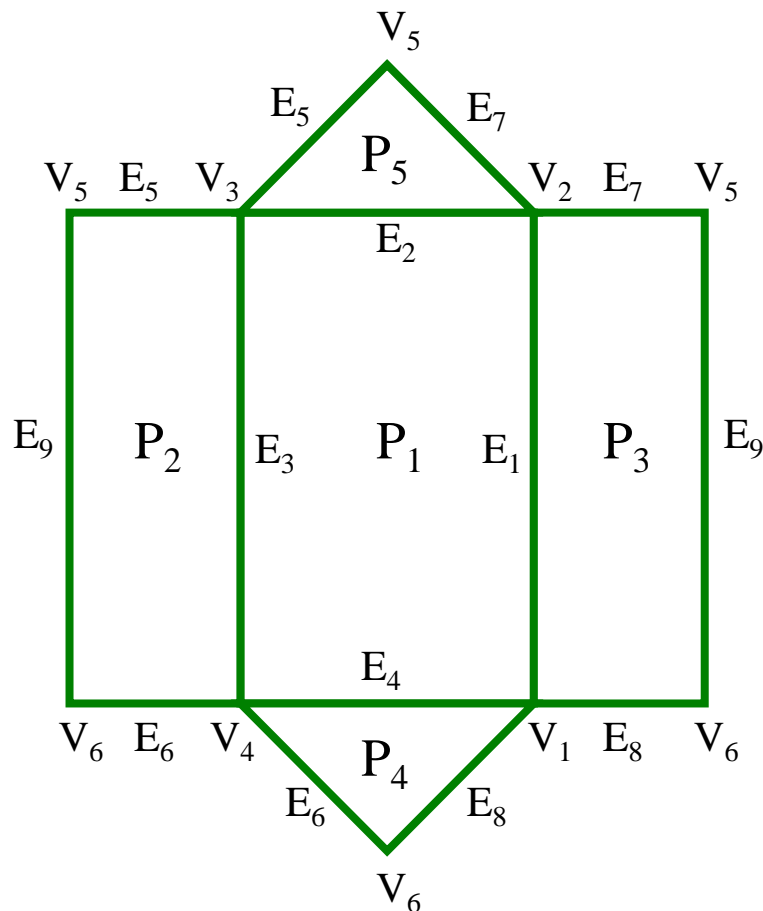
Vértices

1	1	0	0
2	1	3	0
3	0	3	1
4	0	0	1
5	0	3	0
6	0	0	0

Polígonos

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

Punteros (índices) lista de aristas (Anti-horario)



$$\begin{aligned} V_1 &= (1, 0, 0) & V_2 &= (1, 3, 0) \\ V_3 &= (0, 3, 1) & V_4 &= (0, 0, 1) \\ V_5 &= (0, 3, 0) & V_6 &= (0, 0, 0) \end{aligned}$$

Vértices

1	1	0	0
2	1	3	0
3	0	3	1
4	0	0	1
5	0	3	0
6	0	0	0

Aristas

	v_s	v_e	p_i	p_d
1	1	2	1	3
2	2	3	1	5
3	3	4	1	2
4	4	1	1	4
5	3	5	2	5
6	4	6	4	2
7	2	5	5	3
8	1	6	3	4
9	6	5	3	2

Polígonos

1	1	2	3	4
2	3	5	9	6
3	1	8	9	7
4	4	6	8	
5	2	7	5	