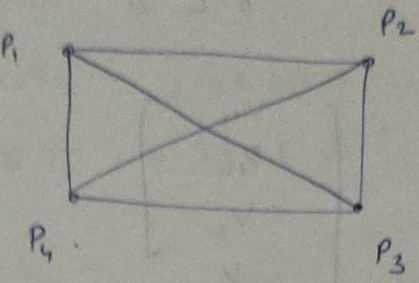
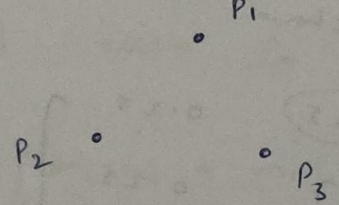
6.) Adjacency Matrix for G_1, G_3 and digraphs D_1 - D_4.

(a) graph G_1



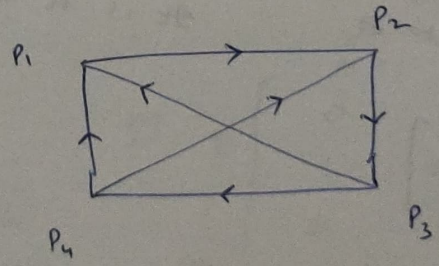
$$A = \begin{bmatrix} 0 & 1 & 1 & 1 \\ 1 & 0 & 1 & 1 \\ 1 & 1 & 0 & 1 \\ 1 & 1 & 1 & 0 \end{bmatrix}_{4\times 4}$$

(c) graph G_3



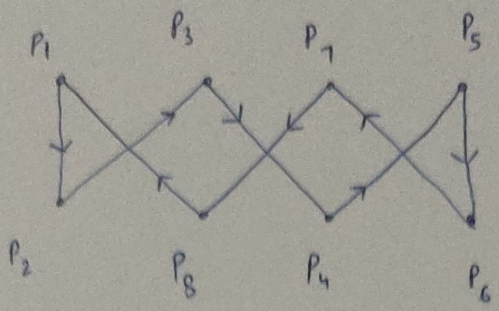
$$A = \begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}_{3\times 3}$$

(e) digraph D_1



$$D = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 1 & 0 & 0 & 1 \\ 1 & 2 & 0 & 0 \end{bmatrix}_{4\times 4}$$

(b) graph D_4



	P_1	P_2	P_3	P_4	P_5	P_6	P_7	P_8
P_1	0	1	0	0	0	0	0	0
P_2	0	0	1	0	0	0	0	0
P_3	0	0	0	1	0	0	0	0
P_4	0	0	0	0	1	0	0	0
P_5	0	0	0	0	0	1	0	0
P_6	0	0	0	0	0	0	1	0
P_7	0	0	0	0	0	0	0	1
P_8	1	0	0	0	0	0	0	0

8×8