



Incident Matrix

	e_1	e_2	e_3	e_4	e_5	e_6	e_7	e_8	e_9	e_{10}	e_{11}
a	1	1	1	1	0	0	0	0	0	0	0
b	0	0	0	0	1	1	1	0	0	0	0
c	0	0	0	0	1	0	1	1	0	0	0
d	0	0	0	0	0	0	0	1	1	1	1
e	0	0	1	0	0	1	0	0	0	0	1
f	0	1	0	0	1	0	0	0	0	1	0
g	1	0	0	0	0	0	0	0	1	0	0

Adjacency Matrix

	a	b	c	d	e	f	g
a	0	0	1	0	1	1	1
b	0	0	1	0	0	1	1
c	1	1	0	1	0	0	0
d	0	0	1	0	1	1	1
e	1	1	0	1	0	0	0
f	1	1	0	1	0	0	0
g	1	0	0	1	0	0	0

Degree of all vertices

$$\text{Deg}(a) = 4 \quad \text{Deg}(b) = 3 \quad \text{Deg}(c) = 3 \quad \text{Deg}(d) = 4 \quad \text{Deg}(e) = 3$$

$$\text{Deg}(f) = 3 \quad \text{Deg}(g) = 2$$