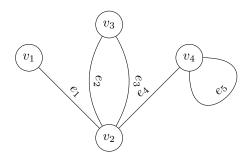


$$V = \{v1, v2, v3, v4\}$$

$$E = \{e1, e2, e3\}$$

Edge	Endpoints
e_1	$\{v_1, v_2\}$
e_2	$\{v_1, v_3\}$
e_3	$\{v_3\}$

2.



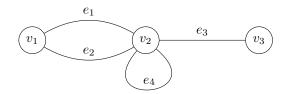
$$V = \{v1, v2, v3, v4\}$$

$$E = \{e1, e2, e3, e4, e5\}$$

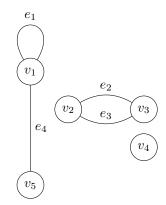
Edge	Endpoints
e_1	$\{v_1, v_2\}$
e_2	$\{v_2, v_3\}$
e_3	$\{v_2, v_3\}$
e_4	$\{v_2, v_4\}$
e_5	$\{v_4\}$

3.

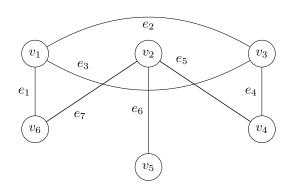
Edge	Endpoints
e_1	$\{v_1, v_2\}$
e_2	$\{v_1, v_2\}$
e_3	$\{v_2, v_3\}$
e_4	$\{v_2\}$



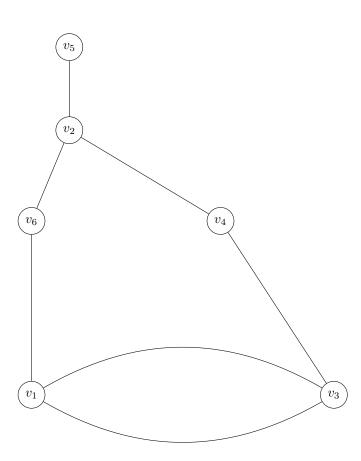
Edge	Endpoints
e_1	$\{v_1\}$
e_2	$\{v_2, v_3\}$
e_3	$\{v_2, v_3\}$
e_4	$\{v_1, v_5\}$



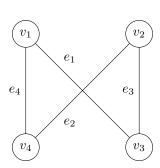
5. (a)



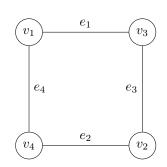
(b)



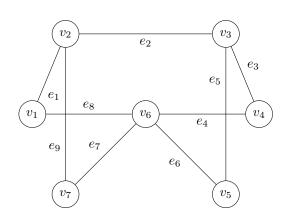
6. (a)



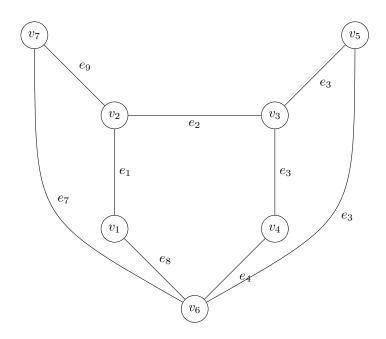
(b)



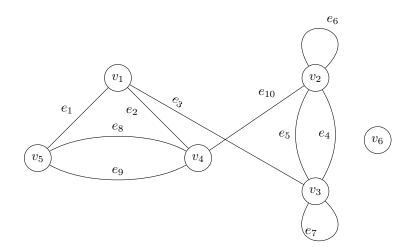
7. (a)



(b)



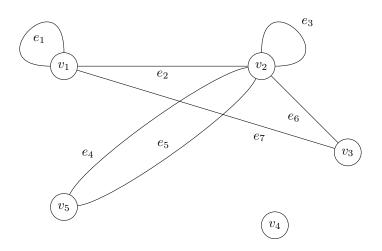
8. (a)



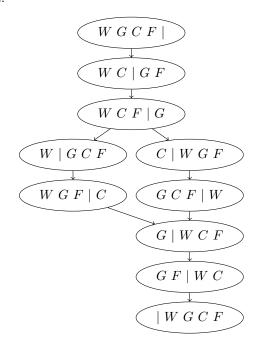
(b) i.
$$\{e_1, e_2, e_3\}$$

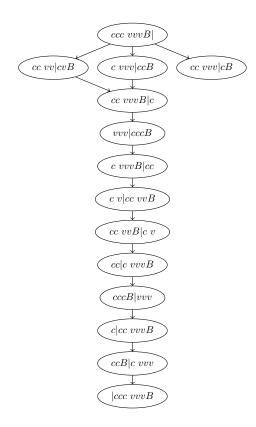
ii. $\{v_1, v_2, v_3\}$
iii. $\{e_2, e_3, e_8, e_9\}$
iv. $\{e_6, e_7\}$
v. $\{\{e_8, e_9\}, \{e_4, e_5\}\}$
vi. $\{v_6\}$
vii. 5

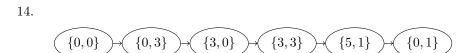
9. (a)

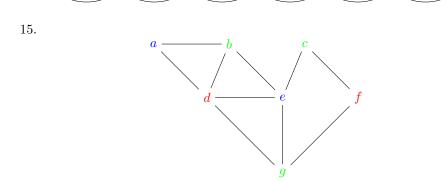


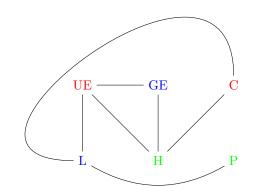
- (b) i. $\{e_1, e_2, e_7\}$ ii. $\{v_1, v_2\}$ iii. $\{e_1, e_1, e_7\}$ iv. $\{e_1, e_3\}$ v. $\{e_4, e_5\}$ vi. $\{v_4\}$ vii. 2
- 10. (a) True
 - (b) True
- 11. ????????











MCS100 MCS120 MCS120

Node	Degree
MCS100	3
MCS101	4
MCS102	4
MCS110	4
MCS120	5
MCS130	4
MCS135	6