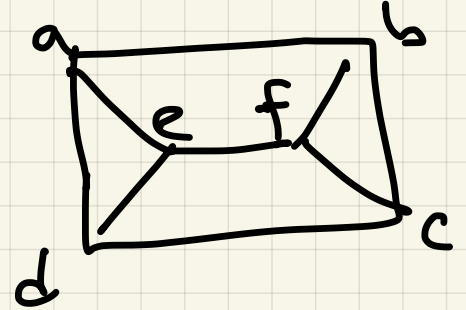
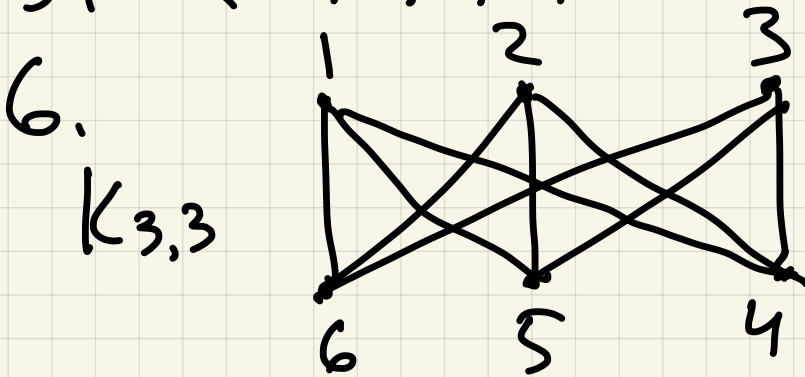


Quiz 1)



- 1.
- | | |
|-----------------------------|-----------------------------|
| $a \rightarrow \{b, e, d\}$ | |
| $b \rightarrow \{a, f, c\}$ | |
| $c \rightarrow \{b, f, d\}$ | $e \rightarrow \{a, d, f\}$ |
| $d \rightarrow \{a, e, c\}$ | $f \rightarrow \{b, c, e\}$ |

2. yes ($V = \{a, d, e\}$)
3. yes ($\langle a, e, f, c, d, a \rangle$ is 5-cycle)
4. $\langle a, d, e, f, c, b \rangle$ (many)
5. $\langle a, b, c, d, a \rangle$



7. No ($K_{3,3}$ has no subgraph $\cong K_3$,
G does have one)