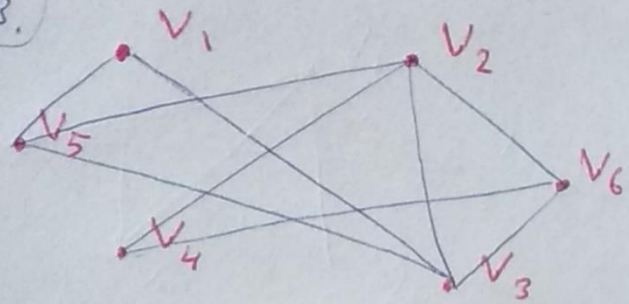


3.



| V | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 1 | 0 | 1 | 0 |
| 2 | 0 | 0 | 1 | 1 | 1 | 1 |
| 3 | 1 | 1 | 0 | 0 | 1 | 0 |
| 4 | 0 | 1 | 0 | 0 | 0 | 1 |
| 5 | 1 | 1 | 1 | 0 | 0 | 0 |
| 6 | 0 | 1 | 0 | 1 | 0 | 0 |

5.

| E | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 0 | 0 | 0 |
| 2 | 1 | 0 | 1 | 0 | 0 | 0 |
| 3 | 0 | 0 | 1 | 0 | 0 | 1 |
| 4 | 0 | 0 | 1 | 0 | 1 | 0 |
| 5 | 0 | 1 | 0 | 1 | 0 | 0 |
| 6 | 1 | 0 | 0 | 0 | 1 | 0 |
| 7 | 0 | 1 | 0 | 0 | 1 | 0 |
| 8 | 1 | 0 | 1 | 0 | 0 | 0 |

1. $V = \{V_1, V_2, V_3, V_4, V_5, V_6\}$
2. $E = \{(V_2, V_3), (V_1, V_3), (V_3, V_6), (V_3, V_5), (V_4, V_5), (V_1, V_5), (V_2, V_5), (V_1, V_3)\}$

4. Короткий

6. $V_1 = 2, V_2 = 3, V_3 = 4$
 $V_4 = 2, V_5 = 3, V_6 = 3$

7. Короткий не max. количество ребер.