**____:** «                                                                        »

1.                                                                                                             ?

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

2.                                                                                                             ?

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

3.                                                                                                             ?

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

4.                                                                                     ?

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

5.                                                                                     ?

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

6.                                                                                     ?

7.                                                  :

   1.

                      .

   2.

                   .
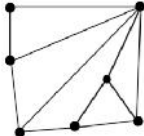
   3.

         .

8.                   $G(V,E)$,      $V = \{v_1, v_2, v_3, v_4, v_5, v_6, v_7, v_8, v_9\}$,

$E = \{(v_1,v_2),(v_2,v_3),(v_1,v_3),(v_3,v_5),(v_6,v_7),(v_3,v_6),(v_7,v_8),(v_5,v_9),(v_1,v_9),(v_8,v_4),(v_7,v_7)\}$

                                                  ?

9.              $G(V,E)$                         .                                  ,
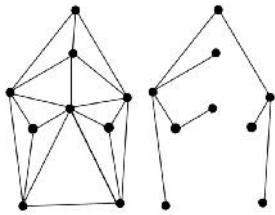
                                    $G - v$.

10.                                            $T$,                      $n > 3$               .

                                                  ?

11. $G$, 128 , 17
. $G$.

12. $G$, 6 .
.

13. $G$, 98
162 .
?

14. $G$, 56
184 .
, , 8 ?

15. ,

.

16. $G(V,E)$, 24 18
. , ,
10 .

17. $G(V,E)$, $|E| = 456,$
10,
6.
?

18. $G$, 64 . ,
10- ,
?

19. $G$ $T$.

$G$                    $T$

$G$.

20.      $G$        $T$.



          $G$        $T$

         $G$.

21.              $G$.



        .
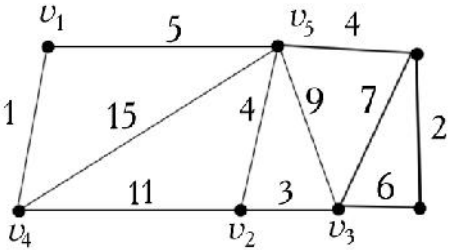
22.              $G$.



23.              $G$.



        .

24.              $G$.

.

25. $G$ .



.

26. $G$ .



.

27. $v_0$ $v$ ,



.

28. $v_0$ $v$ ,

29. $v_0$ $v$ ,



30. $v_0$ $v$ ,
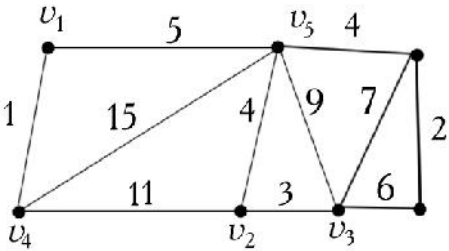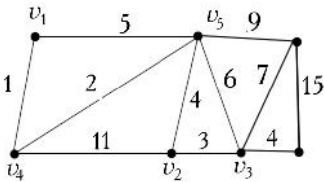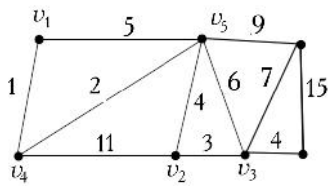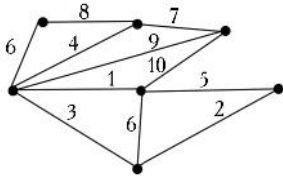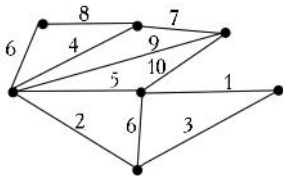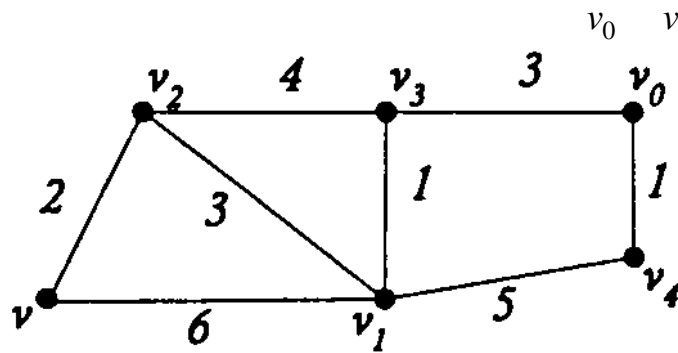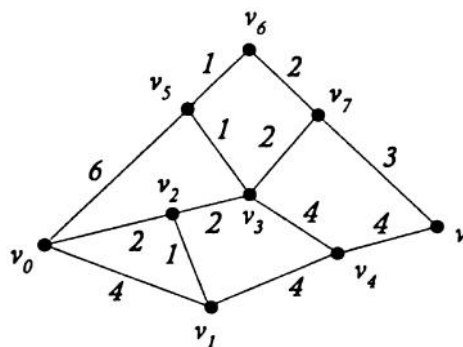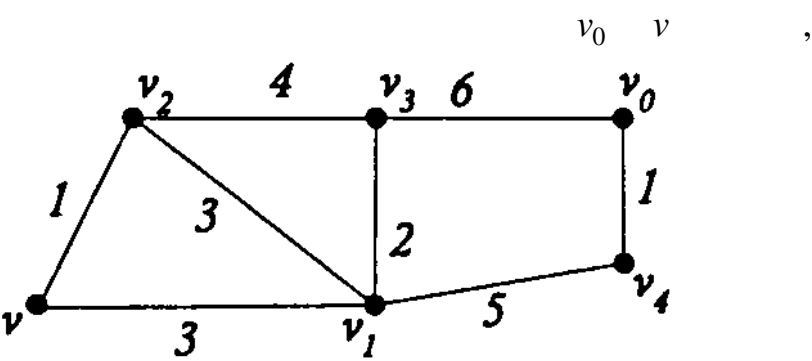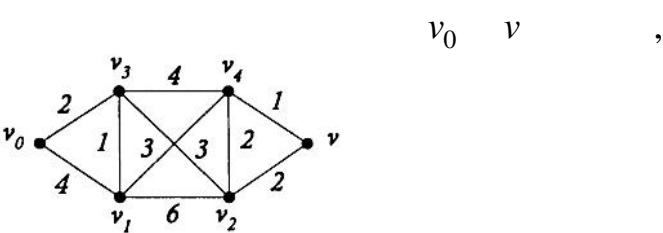


31. $G$.
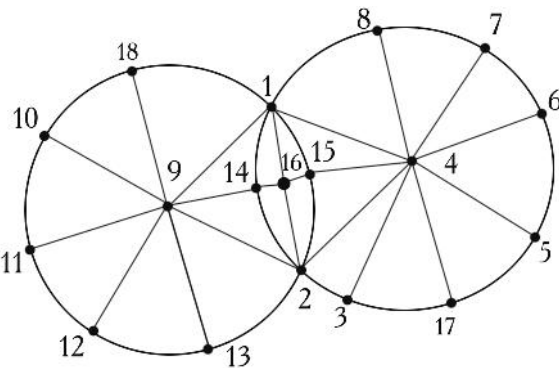


32. $G$.
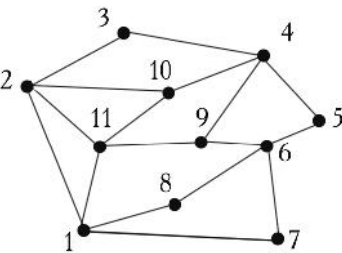
33.                                                *G*.

34.                                                *G*.

35.                                                *G*.

36.                                                *G*.
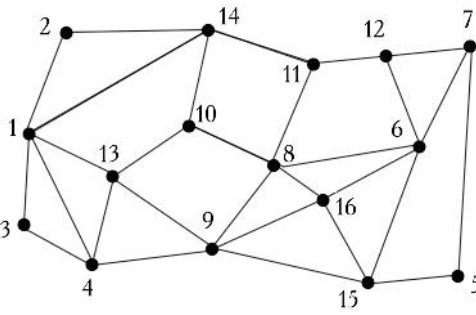
37.                                                                                    *G* .



38.                                                                                    G.



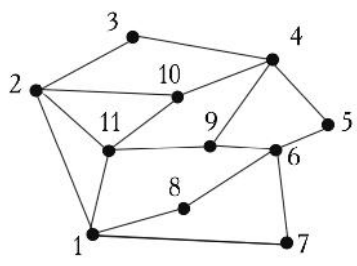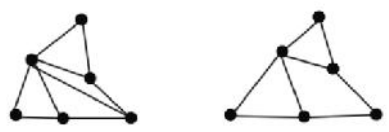39.                                                                        -                    .

40.                                                                        -              .