# Дискретная математика. Минимальный остов
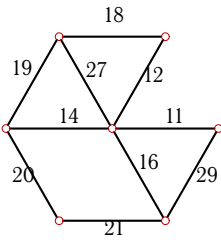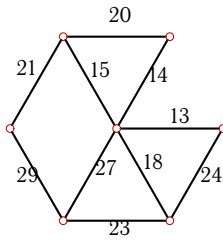
Дан взвешенный граф. Найти остов графа минимального веса.

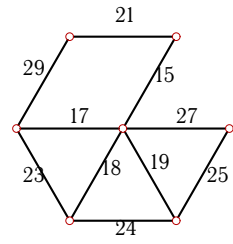| | | |
|---|---|---|
| **Задача** 2.1 | **Задача** 2.2 | **Задача** 2.3 |
| **Задача** 2.4 | **Задача** 2.5 | **Задача** 2.6 |
| **Задача** 2.7 | **Задача** 2.8 | **Задача** 2.9 |
| **Задача** 2.10 | **Задача** 2.11 | **Задача** 2.12 |
| **Задача** 2.13 | **Задача** 2.14 | **Задача** 2.15 |

## Задача 2.16

```
        20
    21  15  27  19
       16     13
    22     18
        29
```
2.2

## Задача 2.17

```
        21
   22      15  20
      17     27
        18  19  25
           29
```
2.2

## Задача 2.18

```
    19  13   27  29
       14     11
    20      16   22
        21
```
2.2

## Задача 2.19

```
        19
   20  14      18
      15     12
   21   16  27
        29
```
2.2

## Задача 2.20

```
        17
  18  12   11  29
     13
      14  27   21
        20
```
2.2

## Задача 2.21

```
        19
  29  14   27  18
     15     12
  21   16
        22
```
2.2

## Задача 2.22

```
        21
  29  16   15  20
     17
  23   27  19   25
```
2.2

## Задача 2.23

```
        17
  18      11  29
     13     27
  19   14  15
        20
```
2.2

## Задача 2.24

```
        18
  19      12  17
     14     27
  20   15  16   29
```
2.2

## Задача 2.25

```
        19
  20  14   13  18
     15      12
  21   27  17   29
```
2.2

## Задача 2.26

```
        21
  22  27   15  20
     17     14
  23   18
        29
```
2.2

## Задача 2.27

```
        29
  20  14   13  18
     15      12
       27     23
        22
```
2.2

## Задача 2.28

```
        17
  18  12   11  29
     13     27
  19   15   21
```
2.2

## Задача 2.29

```
        18
  29       27
     14     11
  20   15  16   22
        21
```
2.2
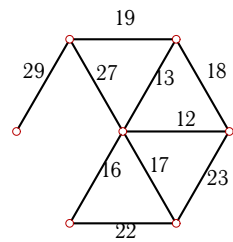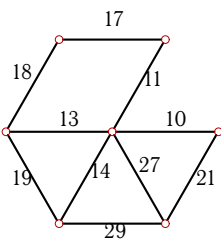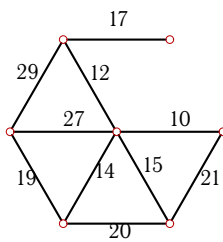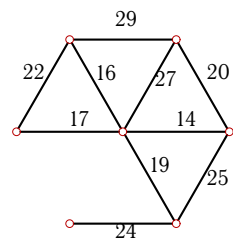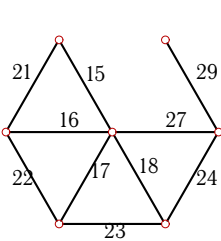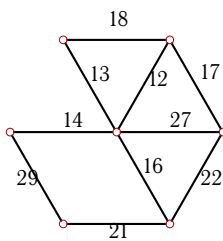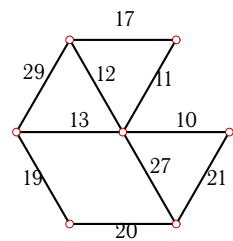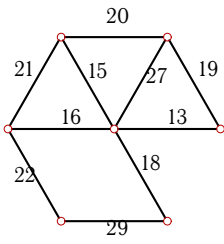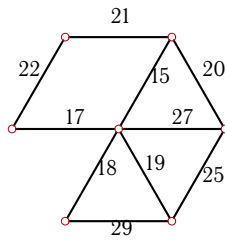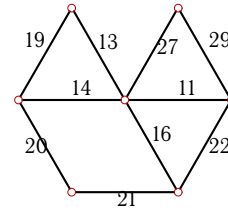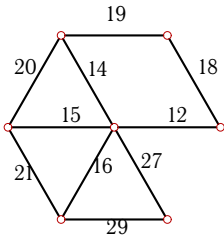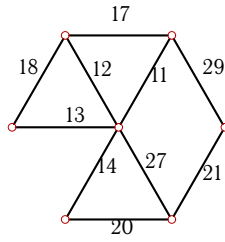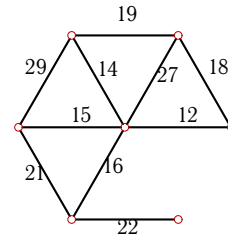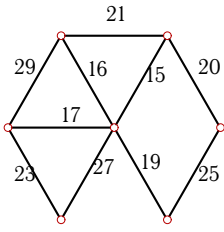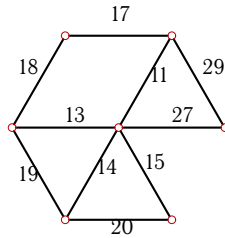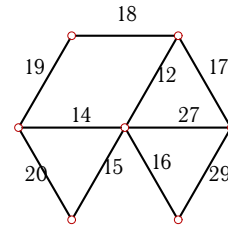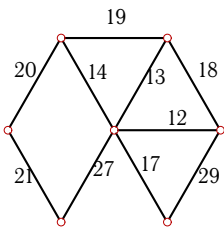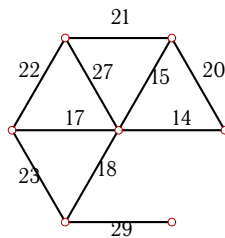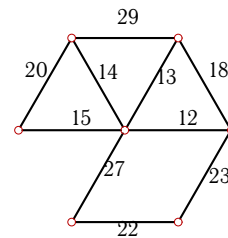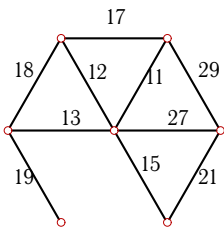
## Задача 2.30
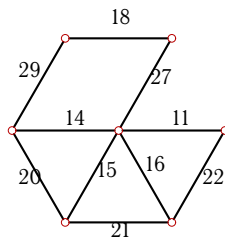
```
        19
  20      13  18
     15     12
  21   16  27   29
```
2.2

# Дискретная математика. Минимальный остов

| № | | Σ |
|---|---|---|
| 1 | 11, 12, 14, 16, 18, 20 | 91 |
| 2 | 13, 14, 15, 18, 21, 23 | 104 |
| 3 | 25, 19, 15, 17, 18, 21 | 115 |
| 4 | 13, 14, 16, 17, 20, 23 | 103 |
| 5 | 19, 14, 15, 17, 18, 27 | 110 |
| 6 | 10, 11, 14, 15, 17, 18 | 85 |
| 7 | 14, 16, 17, 18, 20, 25 | 110 |
| 8 | 11, 12, 14, 16, 19, 20 | 92 |
| 9 | 12, 13, 16, 17, 19, 29 | 106 |
| 10 | 10, 11, 13, 14, 17, 21 | 86 |
| 11 | 10, 12, 14, 15, 17, 19 | 87 |
| 12 | 14, 16, 17, 19, 20, 24 | 110 |
| 13 | 24, 18, 15, 16, 17, 29 | 119 |
| 14 | 17, 12, 13, 14, 16, 21 | 93 |
| 15 | 10, 11, 12, 13, 19, 20 | 85 |
| 16 | 13, 15, 16, 18, 19, 22 | 103 |
| 17 | 20, 15, 17, 18, 19, 21 | 110 |
| 18 | 11, 13, 14, 16, 20, 27 | 101 |
| 19 | 12, 14, 15, 16, 18, 27 | 102 |
| 20 | 21, 20, 14, 11, 12, 13 | 91 |
| 21 | 12, 14, 15, 16, 18, 22 | 97 |
| 22 | 20, 15, 16, 17, 19, 23 | 110 |
| 23 | 27, 11, 13, 14, 15, 17 | 97 |
| 24 | 17, 12, 14, 15, 16, 18 | 92 |
| 25 | 12, 13, 14, 17, 20, 21 | 97 |
| 26 | 14, 15, 17, 18, 21, 29 | 114 |
| 27 | 12, 13, 14, 15, 23, 22 | 99 |
| 28 | 21, 15, 11, 12, 13, 19 | 91 |
| 29 | 11, 14, 15, 16, 27, 18 | 101 |
| 30 | 12, 13, 15, 16, 19, 27 | 102 |