Лабораторная работа №7.

1. рис 2.19  
   Матрица инцидентности:

|  | a | b | c | d | i | f | g | s | u | k | v |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 |
| 3 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 4 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 5 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| 6 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |

Матрица смежности:

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

1. рис. 2.20  
   Матрица инцидентности

|  | a | b | c | d | i |
| --- | --- | --- | --- | --- | --- |
| 1 | 1 | 1 | 0 | 0 | 0 |
| 2 | 1 | 0 | 1 | 1 | 0 |
| 3 | 0 | 1 | 0 | 0 | 1 |
| 4 | 0 | 0 | 1 | 0 | 1 |
| 5 | 0 | 0 | 0 | 1 | 0 |

Матрица смежности

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

1. рис 2.21  
   Матрица инцидентности

|  | 1 | 2 | 3 |
| --- | --- | --- | --- |
| a | 1 | 0 | 0 |
| b | 0 | 1 | 0 |
| c | 1 | 1 | 1 |
| d | 0 | 0 | 1 |

Матрица смежности

|  | a | b | c | d |
| --- | --- | --- | --- | --- |
| a | 0 | 0 | 1 | 0 |
| b | 0 | 0 | 1 | 0 |
| c | 1 | 1 | 0 | 1 |
| d | 0 | 0 | 1 | 0 |

1. рис 2.22  
   Матрица инцидентности

|  | a | b | c | d | i |
| --- | --- | --- | --- | --- | --- |
| 1 | 1 | 1 | 0 | 0 | 0 |
| 2 | 0 | 1 | 1 | 1 | 0 |
| 3 | 0 | 0 | 1 | 0 | 1 |
| 4 | 1 | 0 | 0 | 1 | 1 |

Матрица смежности

|  | 1 | 2 | 3 | 4 |
| --- | --- | --- | --- | --- |
| 1 | 0 | 1 | 0 | 1 |
| 2 | 1 | 0 | 1 | 1 |
| 3 | 0 | 1 | 0 | 1 |
| 4 | 0 | 1 | 1 | 0 |

1. рис 2.23  
   Матрица инцидентности

|  | a | b | c | d | i |
| --- | --- | --- | --- | --- | --- |
| 1 | 1 | 1 | 1 | 0 | 0 |
| 2 | 1 | 0 | 0 | 1 | 0 |
| 3 | 0 | 1 | 0 | 0 | 1 |
| 4 | 0 | 0 | 1 | 1 | 1 |

Матрица смежности

|  | 1 | 2 | 3 | 4 |
| --- | --- | --- | --- | --- |
| 1 | 0 | 1 | 1 | 1 |
| 2 | 1 | 0 | 0 | 1 |
| 3 | 1 | 0 | 0 | 1 |
| 4 | 1 | 1 | 1 | 0 |