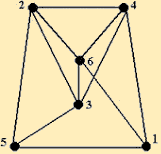
РЕШИТЬ ЗАДАЧИ:

Составьте матрицы инцидентности и смежности для следующих графов:

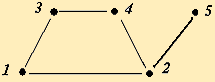


Матрица инциндентности

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** |
| **1** | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2** | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| **3** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| **4** | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| **5** | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| **6** | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |

Матрица смежности

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

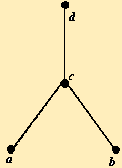


Матрица инциндентности

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

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 | 0 |
| **5** | 0 | 1 | 0 | 0 | 0 |

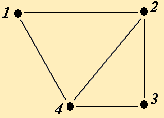


Матрица инциндентности

|  |  |  |  |
| --- | --- | --- | --- |
|  | **u** | **v** | **w** |
| **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 |

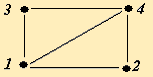


Матрица инциндентности

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

Матрица смежности

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



Матрица инциндентности

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