**6** **Вариант 1.** *Логические выражения 1* **ОТВЕТЫ**

Дана логическая формула, где А и В– логические выражения, которые могут иметь значения ***истина*** и ***ложь***. Заполнить таблицы.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Y = А и В**

|  |  |  |
| --- | --- | --- |
| A | B | Y= АВ |
| истина | истина | **ист** |
| истина | ложь | **л** |
| ложь | истина | **л** |
| ложь | ложь | **л** |

 | **Y = А или В**

|  |  |  |
| --- | --- | --- |
| A | B | Y=А+В |
| истина | истина | **ист** |
| истина | ложь | **ист** |
| ложь | истина | **ист** |
| ложь | ложь | **л** |

 |

 |
| **2** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Y = не(А и В)**

|  |  |  |
| --- | --- | --- |
| A | B |  |
| истина | истина | **л** |
| истина | ложь | **ист** |
| ложь | истина | **ист** |
| ложь | ложь | **ист** |

 | **Y = А или не В**

|  |  |  |
| --- | --- | --- |
| A | B |  |
| истина | истина | **ист** |
| истина | ложь | **ист** |
| ложь | истина | **л** |
| ложь | ложь | **ист** |

 |

 |
| **3** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Y = не А и В**

|  |  |  |
| --- | --- | --- |
| A | B |  |
| истина | истина | **л** |
| истина | ложь | **л** |
| ложь | истина | **ист** |
| ложь | ложь | **л** |

 | **Y = не А или не В**

|  |  |  |
| --- | --- | --- |
| A | B |  |
| истина | истина | **л** |
| истина | ложь | **ист** |
| ложь | истина | **ист** |
| ложь | ложь | **ист** |

 |

 |
| **4** | В восьмибитовой ячейке хранится беззнаковое число. Заполнить таблицу. Записать действия.

|  |  |  |
| --- | --- | --- |
| **содержимое ячейки** | **шестнадцатеричная запись** | **десятеричная запись** |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **1** | **1** |  |  | **1** | **1** | **1** |

  | **Е7** | **231** |
| Действия \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

 |
| **5** | В восьмибитовой ячейке хранится знаковое отрицательное число. Запишите прямой, обратный и дополнительный коды.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **– 9310** |  |  |  |  | **– 4А16** |
| **1** | **1** |  | **1** | **1** | **1** |  | **1** | ***прямой*** | **1** | **1** |  |  | **1** |  | **1** |  |
| **1** |  | **1** |  |  |  | **1** |  | ***обратный*** | **1** |  | **1** | **1** |  | **1** |  | **1** |
| **1** |  | **1** |  |  |  | **1** | **1** | ***дополнительный*** | **1** |  | **1** | **1** |  | **1** | **1** |  |

 |
| **6** | В двухбайтовой ячейке хранится знаковое отрицательное число. Запишите шестнадцатеричный, прямой, обратный и дополнительный коды.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  | **– 1620510** |
| **шестнадцатеричный** | **– 3F4D** |
| ***прямой*** | **1** |  | **1** | **1** | **1** | **1** | **1** | **1** |  | **1** |  |  | **1** | **1** |  | **1** |
| ***обратный*** | **1** | **1** |  |  |  |  |  |  | **1** |  | **1** | **1** |  |  | **1** |  |
| ***дополнительный*** | **1** | **1** |  |  |  |  |  |  | **1** |  | **1** | **1** |  |  | **1** | **1** |
|  | **ст.** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **мл.** |

 |