|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **+** | **0** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **A** |
| **0** | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A |
| **1** | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B |
| **2** | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C |
| **3** | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D |
| **4** | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E |
| **5** | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| **6** | 6 | 7 | 8 | 9 | A | B | C | D | E | F | G |
| **7** | 7 | 8 | 9 | A | B | C | D | E | F | G | H |
| **8** | 8 | 9 | A | B | C | D | E | F | G | H | Я |
| **9** | 9 | A | B | C | D | E | F | G | H | Я | J |
| **A** | A | B | C | D | E | F | G | H | Я | J |  |

Составить таблицы сложения и умножения для 11-ричной системы счисления.

| **×** | **0** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **A** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1** | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A |
| **2** | 0 | 2 | 4 | 6 | 8 | A | 10 | 12 | 14 | 16 | 18 |
| **3** | 0 | 3 | 6 | 9 | 11 | 14 | 17 | A | 22 | 25 | 28 |
| **4** | 0 | 4 | 8 | 11 | 10 | 14 | 18 | 26 | 20 | 24 | 28 |
| **5** | 0 | 5 | A | 14 | 14 | 19 | 28 | 23 | 28 | 41 | 32 |
| **6** | 0 | 6 | 10 | 12 | 18 | 28 | 24 | 2A | 30 | 36 | 55 |
| **7** | 0 | 7 | 12 | A | 26 | 23 | 2A | 45 | 51 | 58 | 64 |
| **8** | 0 | 8 | 14 | 22 | 20 | 28 | 30 | 51 | 59 | 66 | 73 |
| **9** | 0 | 9 | 16 | 25 | 24 | 41 | 36 | 58 | 66 | 74 | 82 |
| **A** | 0 | A | 18 | 28 | 28 | 32 | 55 | 64 | 73 | 82 | 91 |

Перевести десятичное число 425,24 в двоичную, восьмеричную, шестнадцатеричную системы счисления (при получении бесконечной дробной части записать 4 знака после запятой).

425,2410=110101001,00112

425,2410=651,17278

425,2410=1А9,3D7016

Вычислить:

1848 + 15416 – 1100011012=132+340-397=75

1848=13210

15416=34010

1100011012=39710

Составить таблицу истинности для логической функции: ((𝑃 → 𝑄) ∧ ((𝑄 → 𝑅) ∧ (𝑃 → 𝑅))).

| **𝑃*P*** | **𝑄*Q*** | **𝑅*R*** | **𝑃→𝑄*P*→*Q*** | **𝑄→𝑅*Q*→*R*** | **𝑃→𝑅*P*→*R*** | **(𝑄→𝑅)∧(𝑃→𝑅)(*Q*→*R*)∧(*P*→*R*)** | **((𝑃→𝑄)∧((𝑄→𝑅)∧(𝑃→𝑅)))((*P*→*Q*)∧((*Q*→*R*)∧(*P*→*R*)))** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 |
| 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 |
| 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | **1** |