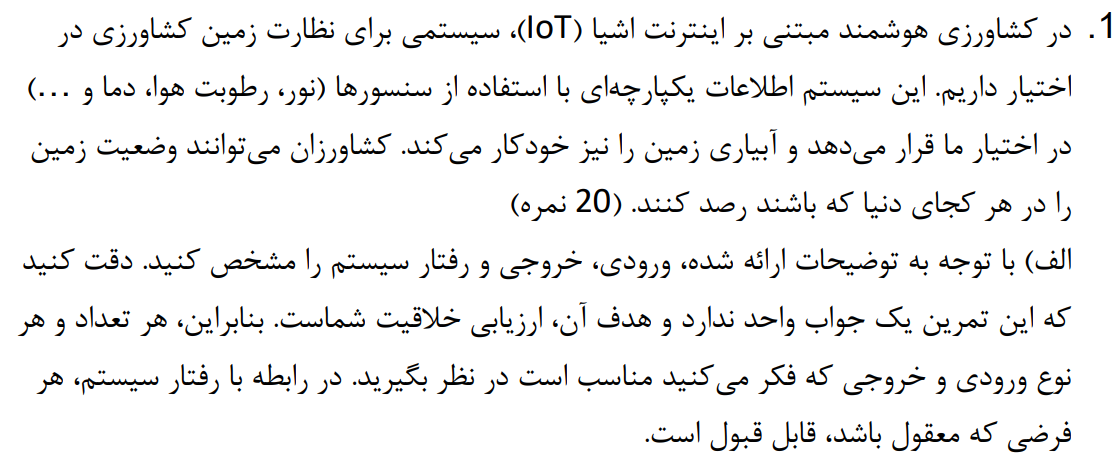
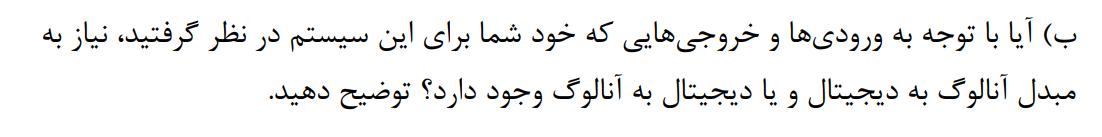
**چمران معینی**

**شماره دانشجویی: ۹۹۳۱۰۵۳**

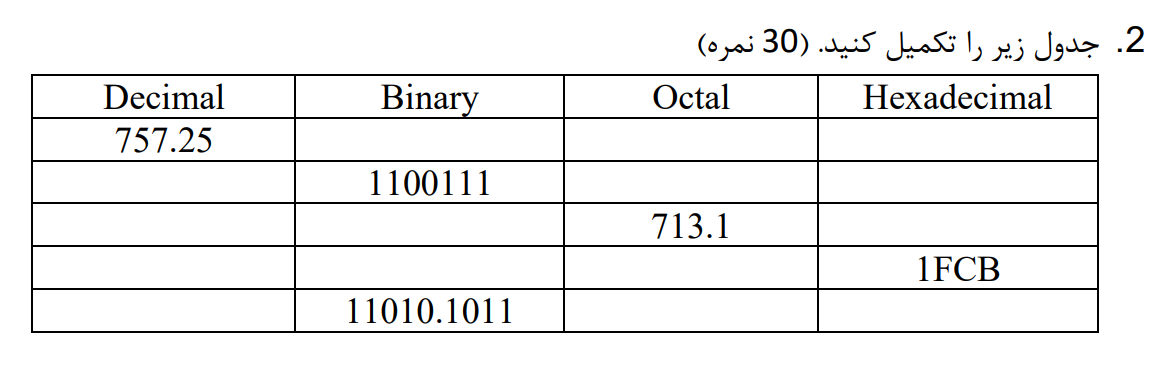
**سوالات اصلی**



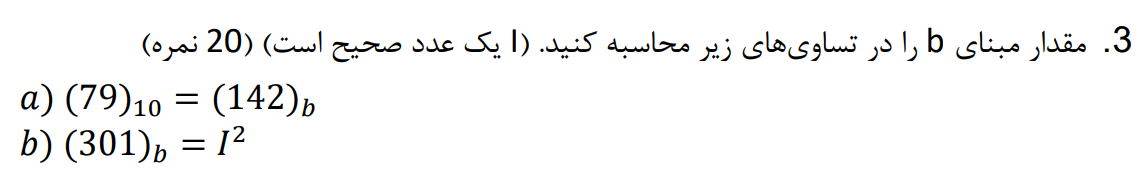
۱. الف)

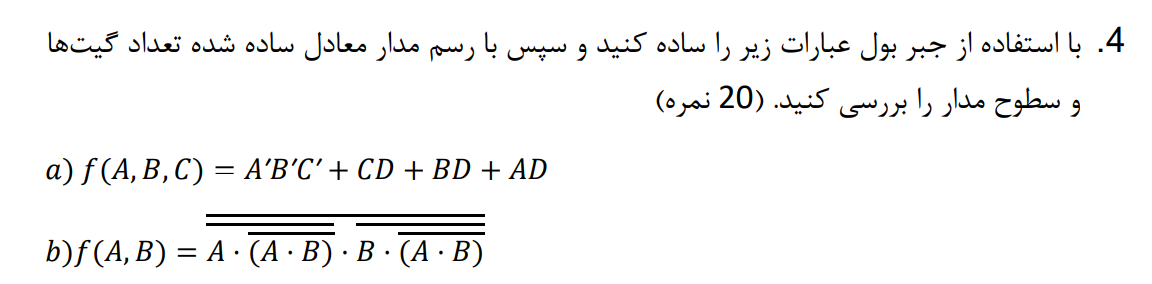


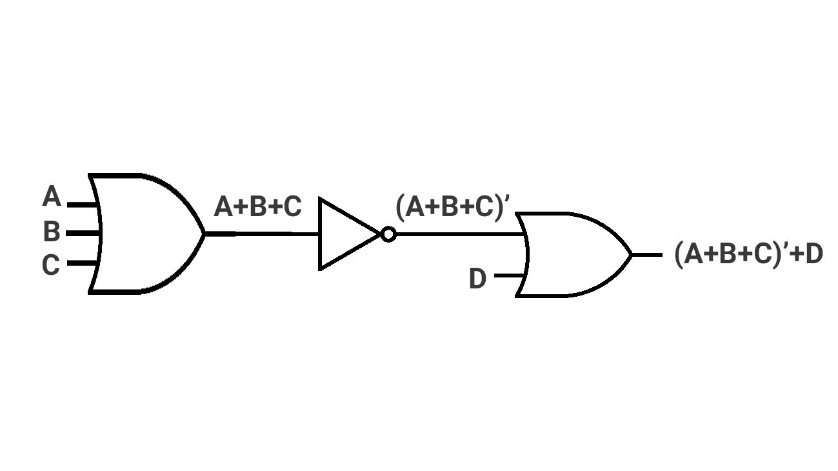
۱. ب)



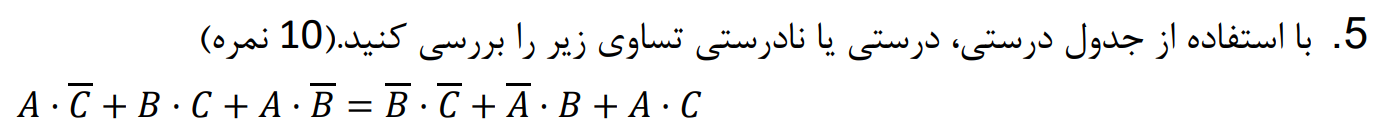
|  |  |  |  |
| --- | --- | --- | --- |
| Hexadecimal | Octal | Binary | Decimal |
| 2D5.4 | 1325.2 | 1011010101.01 | 757.25 |
| 67 | 147 | 1100111 | 103 |
| 1CB.2 | 713.1 | 111001011.001 | 459.125 |
| 1FCB | 17713 | 1111111001011 | 8139 |
| 1A.B | 32.54 | 11010.1011 | 26.6875 |







𝐴,𝐵=.𝐵.(𝐴.𝐵)→**𝑫𝒆𝑴𝒐𝒓𝒈𝒂𝒏**’**𝒔** **𝑳𝒂𝒘**→𝐴.+𝐵.→**𝑭𝒂𝒄𝒕𝒐𝒓𝒊𝒏𝒈**→𝐴+𝐵→**𝑫𝒆𝑴𝒐𝒓𝒈𝒂𝒏**’**𝒔** **𝑳𝒂𝒘**→′+𝐵′𝐴+𝐵→**𝑴𝒖𝒍𝒕𝒊𝒑𝒍𝒚𝒊𝒏𝒈 𝑶𝒖𝒕**→𝐴𝐵′+𝐵𝐴′

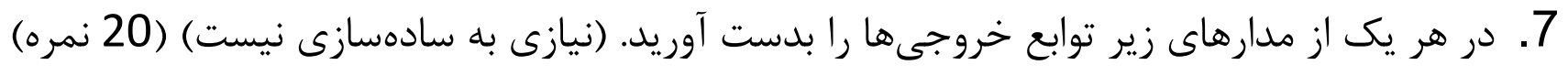


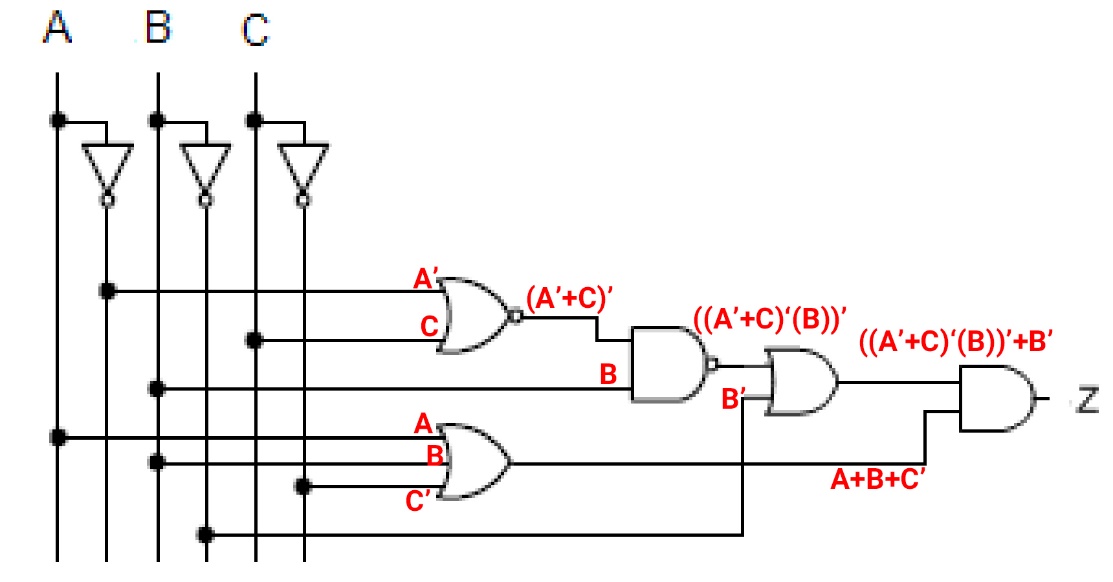
AC’ + BC + AB’ = X

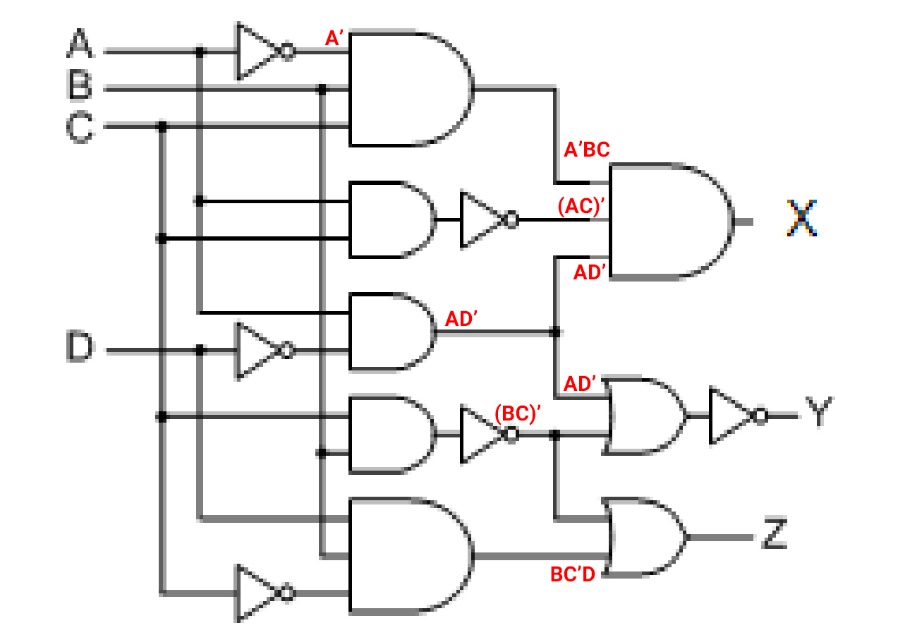
B’C’ + A’B + AC = Y

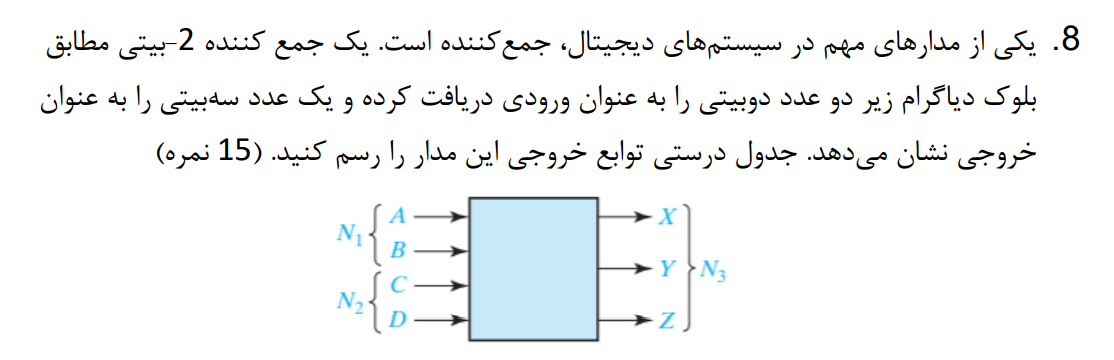
|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Y** | AC | A’B | B’C’ | **X** | AB’ | BC | AC’ | C | B | A |
| **1** | 1 | 0 | 0 | **1** | 0 | 1 | 0 | 1 | 1 | 1 |
| **1** | 1 | 0 | 0 | **1** | 0 | 0 | 1 | 0 | 1 | 1 |
| **0** | 0 | 0 | 0 | **1** | 1 | 0 | 0 | 1 | 0 | 1 |
| **1** | 0 | 0 | 1 | **1** | 1 | 0 | 1 | 0 | 0 | 1 |
| **1** | 0 | 1 | 0 | **1** | 0 | 1 | 0 | 1 | 1 | 0 |
| **1** | 0 | 1 | 0 | **0** | 0 | 0 | 0 | 0 | 1 | 0 |
| **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | 1 | 0 | 0 |
| **1** | 0 | 0 | 1 | **0** | 0 | 0 | 0 | 0 | 0 | 0 |

همان‌طور که مشاهده می‌کنیم، در سه حالت تساوی بالا برقرار نیست، پس نادرست است.









|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A | B | N(1) | C | D | N(2) | X | Y | Z | N(3) |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| 0 | 0 | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 2 |
| 0 | 0 | 0 | 1 | 1 | 3 | 0 | 1 | 1 | 3 |
| 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 2 |
| 0 | 1 | 1 | 1 | 0 | 2 | 0 | 1 | 1 | 3 |
| 0 | 1 | 1 | 1 | 1 | 3 | 1 | 0 | 0 | 4 |
| 1 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 2 |
| 1 | 0 | 2 | 0 | 1 | 1 | 0 | 1 | 1 | 3 |
| 1 | 0 | 2 | 1 | 0 | 2 | 1 | 0 | 0 | 4 |
| 1 | 0 | 2 | 1 | 1 | 3 | 1 | 0 | 1 | 5 |
| 1 | 1 | 3 | 0 | 0 | 0 | 0 | 1 | 1 | 3 |
| 1 | 1 | 3 | 0 | 1 | 1 | 1 | 0 | 0 | 4 |
| 1 | 1 | 3 | 1 | 0 | 2 | 1 | 0 | 1 | 5 |
| 1 | 1 | 3 | 1 | 1 | 3 | 1 | 1 | 0 | 6 |

