第一章练习

A+BE = 1

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1. [57.23] 10= [111001.0001] 2 (精度为 1%)
   0.23 \times 2 = 0.49 \times 2 = 0.92 \times 2 = 1.84
2.将下列数转换为十进制数:
    (101011.110) <sub>2,</sub> (73.2) <sub>8</sub>; (3E5.6D) <sub>16</sub>
  (43.75)_{0}; (59.25)_{0}; (997.109)_{0}
3.将下列数转换为十进制数:
 (100011.1101) 2: (43.2) 8: (1E5.F) 16
  (35.8125)_{\rm p}; (35.25)_{\rm p}; (485.15)_{\rm p}
4.将下列数转换为十进制数:
 (101011.110) 2; (103.2) 8; (1E5.6D) 16
  (43.75)<sub>0</sub>; (6), 25)<sub>0</sub>; (485, 109)<sub>0</sub>
5. [150.23] 10=[] 2 (精度为 1%) | DDD | | 0011 | 101
  0.01 \Rightarrow 2'
6.请将下列各数按从大到小的顺序依次排列:
 (246)_{8}; (165)_{10}; (10100111)_{2}; (A4)_{16} (1010011)_{2} > (246)_{8} > (165)_{10} > (A4)_{16}
                      (167)10
7. (80.125)_{10} = (50.70)_{16}
8.将二进制数(101010)2转换称八、十、十六进制数。
   (101010)_{2} = (52)_{8} = (42)_{10} = (2A)_{16}
9. [255.2] _{10} = [00|0 010| 010|. 0010 ] _{8421BCD}
10.(257) _{10}=(|0000000|) _{2}=(|00|) _{16}=(|00|0|0|0|0|)
                                                                 )8421BCD
11 [10001000]_2 = [000|001|0110]_{8421BCD}
  = (136)_{D}
                                                                  一)补.原码不考
12.
      已知[X]<sub>*</sub>=10011001 → 友 10011000
        则 [X]_{\mathbb{R}} = [III00III] X = [-II00III]
13.
     己知[X]*=11001100 IV00 [7]]
                                           X = [-1]0100
        则 [X] <sub>原</sub>= [DII 01 00
14. (1) 已知[X]补=11111001 III 1000
        则 [X]原= [QODON]X= [刊]
  15.指出下列逻辑函数中 A, B, C 取哪些值时, F=1。
    (1) F(A, B, C) = AB + \overline{AC} A = [A + \overline{AC}]
    (2) F(A,B,C) = A + B\overline{C}(A+B) A = \emptyset, B = \emptyset, C = \overline{\emptyset}
          A+B=1
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16.指出下列逻辑函数中 A, B, C 取哪些值时, F=1。

(1)
$$F(A, B, C) = \overline{AB} + A\overline{C}$$
 (2) $F(A, B, C) = \overline{A + \overline{BC}}(A + C)$

(1) A=0,B=1; A=1, (=0 (2) A=0, B=0, C=1

17.指出下列逻辑函数中 A, B, C 取哪些值时, F=1。

(1)
$$F(A, B, C) = AB + A\overline{C}$$

18.分析附图所示电路的逻辑功能,写出各逻辑函数表达式。





