Мурашко Сергей

1 вариант

Задание 1

А (333)  
а.1) 666/2 = 333 (0) 333/2 = 166(1) 166/2=83(0)

83/2 = 41(1) 41/2 = 20(1) 20/2=10(0)

10/2 = 5(0) 5/2 = 2(1) 2/2 = 1(0) (1)

1010011010

а.2) 666/8 = 83(2) 83/8=10(3) 10/8=1(2) (1)

1232

а.3) 666/16 = 41(А) 41/16=2(9) (2)

29А

Б (305)

б.1) 305/2 = 152(1) 152/2 = 76(0) 76/2 = 38(0)

38/2 = 19(0) 19/2 = 9(1) 9/2 = 4(1)

4/2 = 2(0) 2/2 = 1(0) (1)

100110001

б.2) 305/8 = 38(1) 38/8 = 4(6) (4)

461

б.3) 305/16 = 19(1) 19/16=1(3) (1)

131

В (153,25)

в.1) 153/2 = 76(1) 76/2 = 38(0) 38/2 = 19(0)

19/2 = 9(1) 9/2 = 4(1) 4/2 = 2(0)

2/2 = 1(0) (1)

0.25\*2=0.5(0) 0.5\*2 = 1(1)

10011001.01

в.2) 153/8 = 19(1) 19/8=2(3) (2)

0.25\*8 = 2(2)

231.2

в.3) 153/16 = 9(9) (9)

0.25\*16 = 4(4)

99.4

Г (162,25)

г.1) 162/2 = 81(0) 81/2 = 40(1) 40/2 = 20(0)

20/2 = 10(0) 10/2 = 5(0) 5/2 = 2(1)

2/2 = 1(1) (1)

0.25\*2 = 0.5(0) 0.5\*2=1(1)

11100010.01

г.2) 162/8 = 20(2) 20/8 = 2(4) (2)

0.25\*8 = 2(2)

242.2

г.3) 162/16 = 10(2) (А)

0.25\*16 = 4(4)

А2.4

Д (248,46)

д.1) 248/2 = 124(0) 124/2 = 62(0) 62/2 = 31(0)

31/2 = 15(1) 15/2 = 7(1) 7/2 = 3(1)

3/2 = 1(1) (1)

0.46\*2 = 0.92(0) 0.92\*2 = 1.84(1) 0.84\*2 = 1.64(1)

0.64\*2 = 1.28(1) 0.28\*2 = 0.56(0)

11111000.01110

д.2) 248/8 = 31(0) 31/8 = 3(7) (3)

0.46\*8 = 3.68(3) 0.68\*8 = 5.44(5) 0.44\*8 = 3.52(3)

370.353

д.3) 248/16 = 15(8) (F)

0.46\*16 = 7.36(7) 0.36\*16 = 5.76(5) 0.76\*16 = 1216(С)

F8.75C

Задание 2

а) 1100111011 = 1+2+8+16+32+256+512 = 827

б) 10000000111 = 1+2+4+1024 = 1031

в) 10110101,1 = 1+4+16+32+128+0.5 = 181.5

г) 100000110,10101 = 2+4+256+0.5+0.125+0.03125 = 262.65625

д) 671,24 = 6\*64+7\*8+1+2/8+4/64 = 441.3125

е) 41А,6 = 4\*256 + 16 + 10 + 6/16 = 1050.375

Задание 3

а) 10 000 011 + 1 000 011 = 11 000 110 = 2+4+64+128 = 198

б) 1 010 010 000 + 1 101 111 011 = 11 `000 001 011 = 1+2+8+512+1024= 1545

в) 110 010,101 + 1 011 010 011,01 = 1 100 000 101,111 = 1+4+256+512+0.5+0.25+0.125 = 773,875

г) 356,5 + 1757,04 = 2335,54

д) 293,8 + 3СС,98 = 660,18

Задание 4

а) 100111001 – 110110 = 100000011

б) 1111001110 – 111011010 = 111110100

в) 1101111011.01 – 101000010.0111 = 1000111000.1111

г) 2025.2 -131.2 = 1674

д) 2D8.4 – A3.B = 234.9

Задание 5

а) 110011\*1011010 = 1000111101110

б) 2001,6 \* 125,2 = 252625,14

в) 2С,4 \* 12,98 = 336.C6

Задание 6

а) 110011000 : 10001 = 110000

б) 2410 : 27 = 70

в) 4A : 1B = 2.BE