第一章习题3、4、5、6、8、9、17

3.

(1) $(25.8125)_{10} = (11001.1101)_2 = (31.64)_8 = (19.D)$

(2) $(101101.011)_2 = (45.375)_{10} = (55.3)_8 = (2D.6)_{16} = (01000101.001101110101)_{8421}$

(3) $(010110010110.0011)_{8421} = (596.3)_{10} = (1001010100.010011001100\cdots)_2 = (254.4CC\cdots)_{16}$

(4) $(4E.C)_{16} = (78.75)_{10} = (01001110.101)_2$

4.

0.1001000, 1.1001000, 00000000, 10000000, 0.0101000, 1.0101000, 00000000, 10000000

5.

(1) +1001 => 补码: 00001001, 移码: 10001001

(2) -1001 => 补码: 11110111, 移码: 01110111

(3) +1 => 补码: 00000001, 移码: 10000001

(4) -1 => 补码: 11111111, 移码: 01111111

(5) +10100 => 补码: 00010100, 移码: 10010100

(6) -10100 => 补码: 11101100, 移码: 01101100

(7) +0 => 补码: 00000000, 移码: 10000000

(8) -0 => 补码: 00000000, 移码: 10000000

6.

(1) $x = (-00011001)_2 = -25$

(2) $x = (-10000000)_2 = -128$

(3) $x = (1010010)_2 = 82$

(4) $x = (-00101101)_2 = -45$

8.

(1) 0xFFFF8000

(2) 0x020A

(3) 0x0000FFFA

(4) 0x40

(5) 1 01111111 00011001100110011001100 => 0xBF8CCCCC

(6) 0 01000000010 0101 0000... => 0x2025000000000000

9.

(1) -65530

(2) -8195

(3) 4294967290

(4) '*'

(5) -800.0

(6) -10.25

17.

Addr	100	101	102	103	...	108	109	110	111	112	113
Big Endian	BE	00	00	00	...	40	F0	00	00	00	64
Little Endian	00	00	00	BE	...	00	00	F0	40	64	00