d.2) $-1026,4096 = (1\,1000\,0000\,010\,0110\;1000\;1101\,1011\;1000)_2$

$0,0912 \times 2 = 0,1824$

$0,1824 \times 2 = 0,3648$ O número de bits na parte inteira

$0,3648 \times 2 = 0,7296$ excede 10 bits.

Exercício-2)

d.1) $+512,1024 = (776,064334)_8 = (1FE,1A36E)_H$

d.2) $-1026,4096 = (-2002,3215560)_8 = (-402,68DB8)_H$

Exercício-3)

a) $FBC_H + 1FC_H = (11B8)_H$

FBC_{16}

$1FC_H +$

$11B8$

b) $3726_8 - 2754_8 = (752)_8$

3726_8

$2754_8 -$

0752_8

Exercício-5)

a) $213 + -113 = (0\,1100100)_2$

$213 = (0\,1101\,0101)_2$

$-113 = (1\,1110001)_2$

01101010_2

-11100_2

$(1100100)_2$

b) $-111010_2 - 101000_2 = (1110\,0010)_2$

-111010_2

$-101000_2 +$

1100010

c) $-AFE_H - FDE_H = (1\,1010\,1101\,1100)_2$

$-AFE_H = (1010\;1111\;1110)_2$

$-FDE_H = (1\,1111\;1101\,1110)_2$

$1010\;1111\;1110$

$1111\;1101\;1110 +$

$1\,1010,1101,1100$

d) $-647_8 + 3622_8 = (0\,10\,111\,101\,011)_2$

$3622_8 = (011\;110\;010\;010)_2$

$647_8 = (110\;100\;111)_2$

$011\;110\;010\;010$

$000\;110\;100\;111 -$

$10111\;101\;011$

Exercício-6)

a) $123 = (5)$

$127 - 123 = 4 : (101)_2 + 1 = (110)_2 = 5$

b) $5124_8 = (2654)_8$

$(5124)_8 = (101\;001\;010\;100)_2 \therefore (010\;110\;101\;011)_2 + 1$

$(010\;110\;101\;100)_2 = (2654)_8$

c) $A1B_H = (5E5)_H$

$A1B_H = (1010\;0001\;1011)_2 \therefore (0101\;1110\;0100)_2 + 1$

$(0101\;1110\;0101)_2 = (5E5)_H$