Askisi 3 Lab 3

For float

a)

Η πόλωση πρέπει να είναι 15, καθώς τα 5 bits στο πεδίο μπορούν να φτάσουν έως το 31.

b)

|  |  |  |  |
| --- | --- | --- | --- |
| A | 1 | 10010 | 0001 |
| B | 0 | 10011 | 1001 |

A= -8,65625

-1000,10101 x 2^0

-1,00010101 x 2^3

Β = 24,875

11000,111x 2^0

1,1000111 x 2^4

c)

Not(1000,10101) = 0111,01010

0111,01010 + 11000,111= 100000,00110

sum= 100000,00110 x2^0

1,0000000110 x2^5

|  |  |  |  |
| --- | --- | --- | --- |
| sum | 0 | 10100 | 0000 |

d)

Not(1000,10101) = 0111,01010

0111,01010 x 11000,111= 10110101,11100110 x 2^0

NOT ( 010110101,11100110) = 101001010,00011010 x 2^0

101001010,00011010 x 2^0

1,0100101000011010 x 2^8

|  |  |  |  |
| --- | --- | --- | --- |
| Prod | 1 | 10111 | 0101 |

e)

Not(1000,10101) = 0111,01010

0111,01010 / 11000,11100= 0.010010110100001 x 2^0

NOT(0.010010110100001)=1.101101001011111

1.101101001011111 x 2^0

|  |  |  |  |
| --- | --- | --- | --- |
| Div | 1 | 01111 | 1011 |