Exemplo 1 da aula 8

1. [-999.999; +999.999]
2. .001
3. .001/2 = .0005

Exemplo 2 da aula 8

1. (-0) 🡪 [-7 ; +7]
2. (-7) 🡪 [-7 ; +7]
3. (-8)🡪 [-8; +7]
4. (+0) 🡪[-8 ; +7]
5. (-7) 🡪[-7, +7]
6. (-0) 🡪[-7, +7]
7. (-1)🡪 [-8, +7]
8. (+7) 🡪[-8, +7]

Complete Tabela:

|  |  |  |
| --- | --- | --- |
|  | 5 bits Sinal-Magnitude | 5 Bits --------- Excesso |
| Nº mais positivo | 15 | 15 |
| Nº mais negativo | -15 | -16 |
| Nº distintos | 31 | 32 |

Exercicios:

2.13

|  |  |  |  |
| --- | --- | --- | --- |
| Base 2 notação |  | Representação Ponto floating |  |
|  | Sinal | Exponencial | Fração |
| -1,0101 x 2⁻² | 1 | 001 | 0101 |
| +1,1 x 2² | 0 | 101 | 1000 |
| +1,0 x 2⁻² | 0 | 001 | 0000 |
| -1,1111 x 2³ | 1 | 110 | 1111 |

2.18🡪

a) 0 10000011 01100000000000000000000🡪 +1.011×2+4

b) 1 10000000 00000000000000000000000🡪 -1.0 x 2+¹

c) 1 00000000 00000000000000000000000🡪 -0

d) 1 11111111 00000000000000000000000🡪 −∞

e) 0 11111111 11010000000000000000000🡪 +NAN

f) 0 00000001 10010000000000000000000🡪 +1.1001 x 2-126

g) 0 00000011 01101000000000000000000🡪 +1.01101 x 2-124

2.19🡪

+1.1011 x 25- 0 10000100 1011 0000 0000 0000 0000 000

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|  |  |  |  |
| --- | --- | --- | --- |
| Matrícula(base2) | Sinal | Expoente | Fração |
| 1.00011010110000111011011011 × 226 | 0 | 10011001 | 00011010110000111011011 |

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|  |  |  |  |
| --- | --- | --- | --- |
| Matrícula(base2) | Sinal | Expoente | Fração |
| 100011010110000111011001100 x226 | 0 | 10011001 | 00011010110000111011010 |

2.20🡪

a)+1.111111 x 263

b)-1.111111 x 263

c)+1.000000 x 2-64

d)-1.000000 x 2-64

2.21🡪



