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|---|---|---|---|---|---|---|
| D | S | T | Q | Q | S | S |
| D | L | M | M | J | V | S |

# - Lista de exercício AULA 5

NOME: LEONARDO SOARES ROCHA

1.

a)  $1101 + 1011 = 11000 //$

$$\begin{array}{r} 11 \\ 1101 \\ + 1011 \\ \hline 11000 // \end{array}$$

b)  $10011002 + 1110112 = 100010000 //$

$$\begin{array}{r} 10011002 \\ + 1110112 \\ \hline 100010000 // \end{array}$$

c)  $010111002 + 001110112 = 100110000 //$

$$\begin{array}{r} 010111002 \\ + 001110112 \\ \hline 100110000 // \end{array}$$

2.  $1010 - 0110 = 0100 //$

$$\begin{array}{r} 1010 \\ - 0110 \\ \hline 0100 // \end{array}$$

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3.  $10011$  PARA DECIMAL

$$(1 \cdot 2^4) + (0 \cdot 2^3) + (0 \cdot 2^2) + (1 \cdot 2^1) + (1 \cdot 2^0)$$

$$16 + 0 + 0 + 2 + 1$$

$$= 19 //$$

4.  $1110 + 0111 = 10101 //$

$$1110$$

$$+ 0111$$

$$10101$$

5.  $1001 - 0111 = 0010 //$

$$1001$$

$$- 0111$$

$$0010$$

6. DECIMAL PARA BINÁRIO (25)

$$25 \div 2$$

$$12 \div 2$$

$$6 \div 2$$

$$3 \div 2$$

$$1 \div 2$$

$$0$$



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$$7. 101 + 110 + 100 = 1111 //$$

$$\begin{array}{r} 101 \\ + 101 \\ \hline 1011 \\ + 100 \\ \hline 1111 // \end{array}$$

$$8. 11000 - 1011 = 01100 //$$

$$\begin{array}{r} 11000 \\ - 1011 \\ \hline 01100 // \end{array}$$

$$9. \text{BINÁRIO PARA DECIMAL } (101101) =$$

$$(1 \cdot 2^5) + (0 \cdot 2^4) + (1 \cdot 2^3) + (1 \cdot 2^2) + (0 \cdot 2^1) + (1 \cdot 2^0)$$

$$32 + 0 + 8 + 4 + 0 + 1$$

$$= 45 //$$

$$10. 111 + 101 = 1100 // \text{ em decimal} = 12 //$$

$$\begin{array}{r} 111 \\ + 101 \\ \hline 1100 // \end{array}$$

$$(1 \cdot 2^3) + (1 \cdot 2^2) + (0 \cdot 2^1) + (0 \cdot 2^0)$$

$$8 + 4 + 0 + 0$$

$$= 12$$