Trabalho 3ª Unidade

Aluno: Paulo Henrique Lopes Carlos

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Binário | A | B | C | D | E | F | G | Número |
| 0000 | **1** | **1** | **1** | **1** | **1** | **1** | **0** | 0 |
| 0001 | **0** | **1** | **1** | **0** | **0** | **0** | **0** | 1 |
| 0010 | **1** | **1** | **0** | **1** | **1** | **0** | **1** | 2 |
| 0011 | **1** | **1** | **1** | **1** | **0** | **0** | **1** | 3 |
| 0100 | **0** | **1** | **1** | **0** | **0** | **1** | **1** | 4 |
| 0101 | **1** | **0** | **1** | **1** | **0** | **1** | **1** | 5 |
| 0110 | **1** | **0** | **1** | **1** | **1** | **1** | **1** | 6 |
| 0111 | **1** | **1** | **1** | **0** | **0** | **0** | **0** | 7 |
| 1000 | **1** | **1** | **1** | **1** | **1** | **1** | **1** | 8 |
| 1001 | **1** | **1** | **1** | **1** | **0** | **1** | **1** | 9 |

Karnaugh A

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| AB/CD | 00 | 01 | 11 | 10 |
| 00 | 1 | 0 | 1 | 1 |
| 01 | 0 | 1 | 1 | 1 |
| 11 | 0 | 0 | 0 | 0 |
| 10 | 1 | 1 | 0 | 0 |

A = .c + a. + +

Karnaugh B

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| AB/CD | 00 | 01 | 11 | 10 |
| 00 | 1 | 1 | 1 | 1 |
| 01 | 1 | 0 | 1 | 0 |
| 11 | 0 | 0 | 0 | 0 |
| 10 | 1 | 1 | 0 | 0 |

B = + .c.d + +

Karnaugh C

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| AB/CD | 00 | 01 | 11 | 10 |
| 00 | 1 | 1 | 1 | 0 |
| 01 | 1 | 1 | 1 | 1 |
| 11 | 0 | 0 | 0 | 0 |
| 10 | 1 | 1 | 0 | 0 |

C = + .d + + .b

Karnaugh D

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| AB/CD | 00 | 01 | 11 | 10 |
| 00 | 1 | 0 | 1 | 1 |
| 01 | 0 | 1 | 0 | 1 |
| 11 | 0 | 0 | 0 | 0 |
| 10 | 1 | 1 | 0 | 0 |

D = .c + .c. + a. + + .d

Karnaugh E

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| AB/CD | 00 | 01 | 11 | 10 |
| 00 | 1 | 0 | 0 | 1 |
| 01 | 0 | 0 | 0 | 1 |
| 11 | 0 | 0 | 0 | 0 |
| 10 | 1 | 0 | 0 | 0 |

E = +

Karnaugh F

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| AB/CD | 00 | 01 | 11 | 10 |
| 00 | 1 | 0 | 0 | 0 |
| 01 | 1 | 1 | 0 | 1 |
| 11 | 0 | 0 | 0 | 0 |
| 10 | 1 | 1 | 0 | 0 |

F = + + a. +

Karnaugh G

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| AB/CD | 00 | 01 | 11 | 10 |
| 00 | 0 | 0 | 1 | 1 |
| 01 | 1 | 1 | 0 | 1 |
| 11 | 0 | 0 | 0 | 0 |
| 10 | 1 | 1 | 0 | 0 |

G = + + + a

Circuito Final

