Nome: Helder Henrique da Silva RA: 20250326

1 - 326, para base 6

326, = 3.8° + 2.8° + 6.8° = 214,0

2-4132,21. para base .10

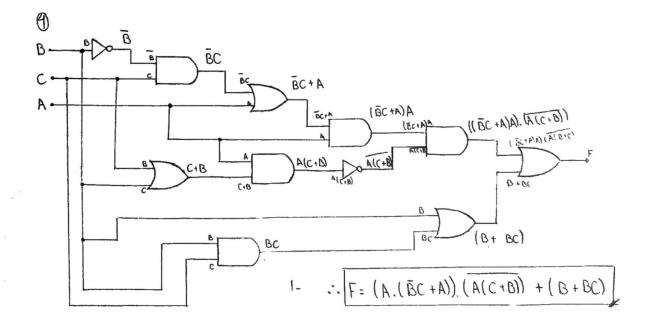
$$4132,21_c = 4.6^3 + 1.6^2 + 3.6^1 + 2.6^0 + 2.6^{-1} + 1.6^{-2} =$$

3-341210 para base 2

3412 [2

1 426 12

$$-12 = 11110011$$
 $\frac{+}{11110100}$



$$2 - F = (A (\overline{B}C + A)) \cdot (\overline{A(C+B)} + (B+BC))$$

$$(A\overline{B}C + AA) \cdot (\overline{A} + \overline{C}B) + B$$

$$(A\overline{B}C + A) \cdot (\overline{A} + \overline{C}B) + B$$

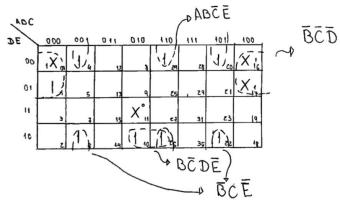
$$(A(ABC)) \cdot (\overline{A} + \overline{C}B) + B$$

$$(A(ABC)) \cdot (\overline{A} + \overline{C}B) + B$$

$$AA + A\overline{C}B + B \Rightarrow B + \overline{B}(A\overline{C}) \Rightarrow B + A\overline{C}$$

$$AA + A\overline{C}B + B \Rightarrow B + \overline{B}(A\overline{C}) \Rightarrow B + A\overline{C}$$

5 f (A,B,C,D,E)= 2 m (1,4,6,10,20,22,24,26) + d (0,11,16,17)



7

$$\begin{array}{lll}
\hline O & 1 - f(A,B,C,D) = \overline{ABC} + AB\overline{D} + BCD & em & produto & de & maxitermos \\
\hline (\overline{ABC}) \cdot (\overline{ABD}) \cdot (\overline{BCD}) \Rightarrow (\overline{ABC}) \cdot (D+\overline{D}) \cdot (\overline{ABD}) \cdot (C+\overline{C}) \cdot (\overline{BCD}) \cdot (A+\overline{A}) \\
\Rightarrow & (\overline{ABCD}) + (\overline{ABCD}) \cdot (\overline{ABDC}) + (\overline{ABDC}) \cdot (\overline{BCDA}) + (\overline{BCDA})
\end{array}$$

```
(\overline{A}\overline{B}CD) \cdot (\overline{A}\overline{B}C\overline{D}) \cdot (\overline{A}B\overline{C}\overline{D}) \cdot (\overline{A}B\overline{C}\overline{D
```

$$\left. : \left[f(A,B,C,D) = \sum_{m} (0,1,2,3,4,5,6,7,12,13,15) \right]$$

D BD