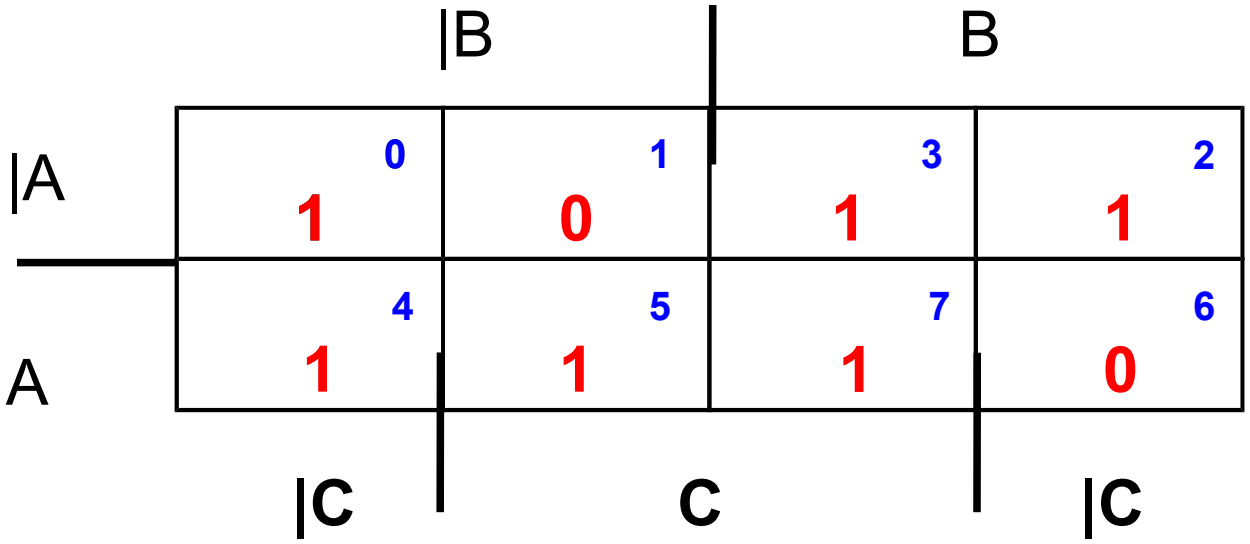
# Tarefa para fixação de conteúdo

| Caso | A | B | C | S1 | S2 | S3 | S4 | S5 |
|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 |
| 2 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 |
| 3 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |
| 4 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| 5 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 |
| 6 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| 7 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 |

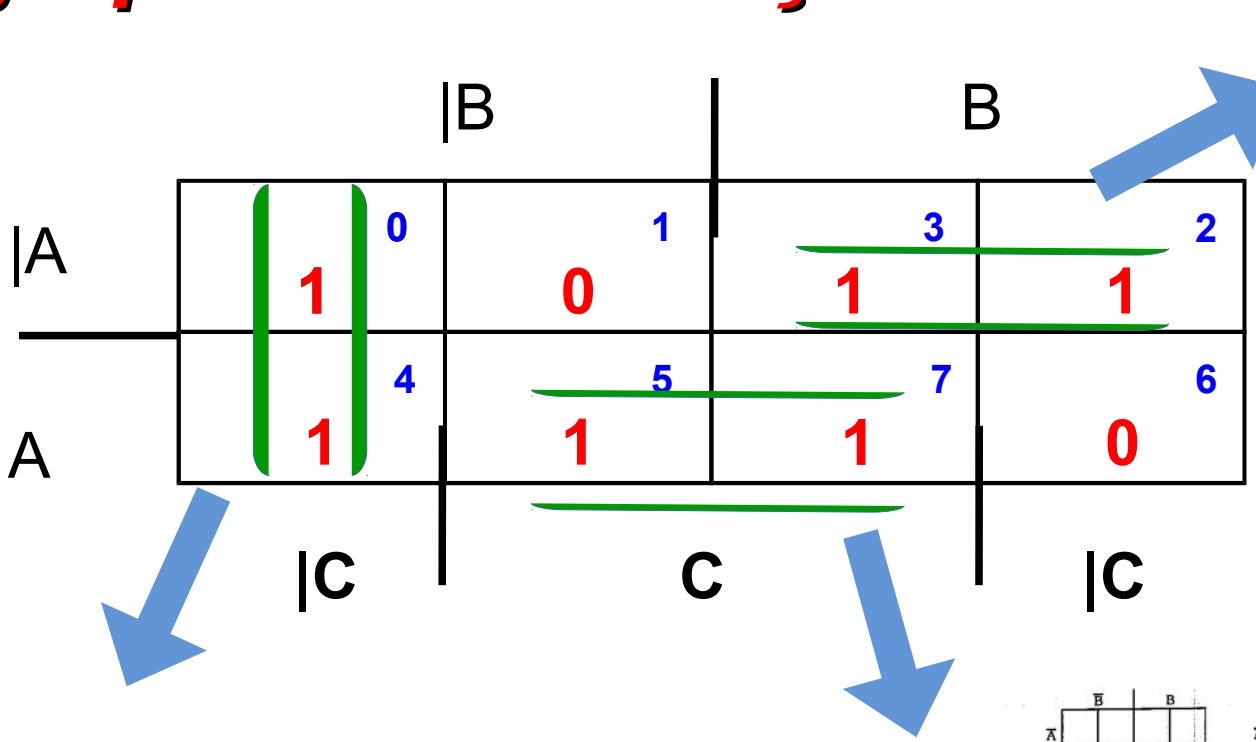
No exercício S5 tem um bit isolado no caso 5 e o bit do caso 2 será agrupado três vezes para melhor eficiência da simplificação do circuito

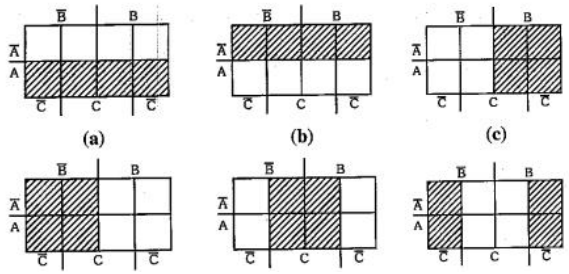
# 1) Distribuição no mapa



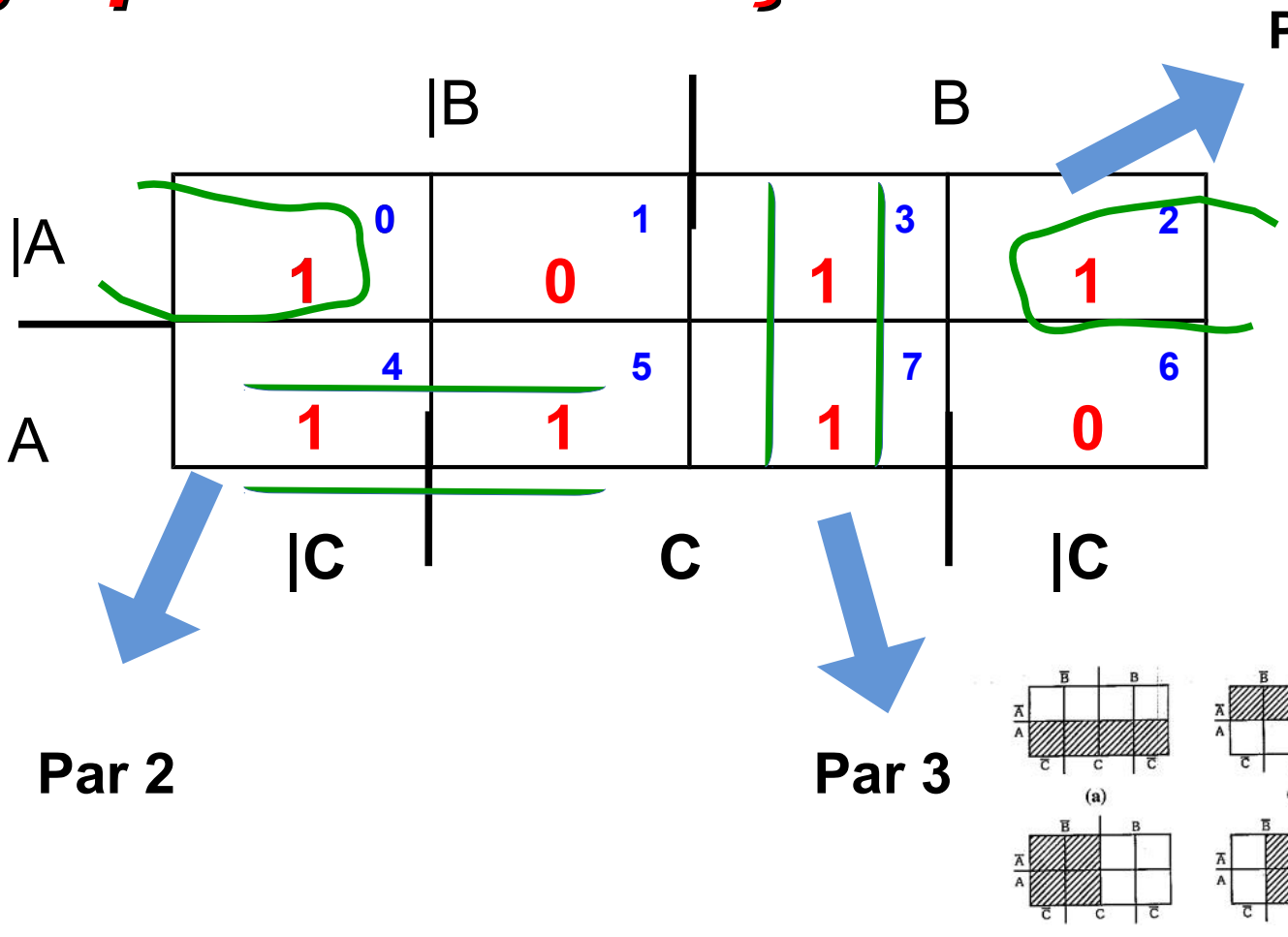

| Caso | S1 |
|---|---|
| 0 | 1 |
| 1 | 0 |
| 2 | 1 |
| 3 | 1 |
| 4 | 1 |
| 5 | 1 |
| 6 | 0 |
| 7 | 1 |

# 2) Agrupamento – OPÇÃO 1

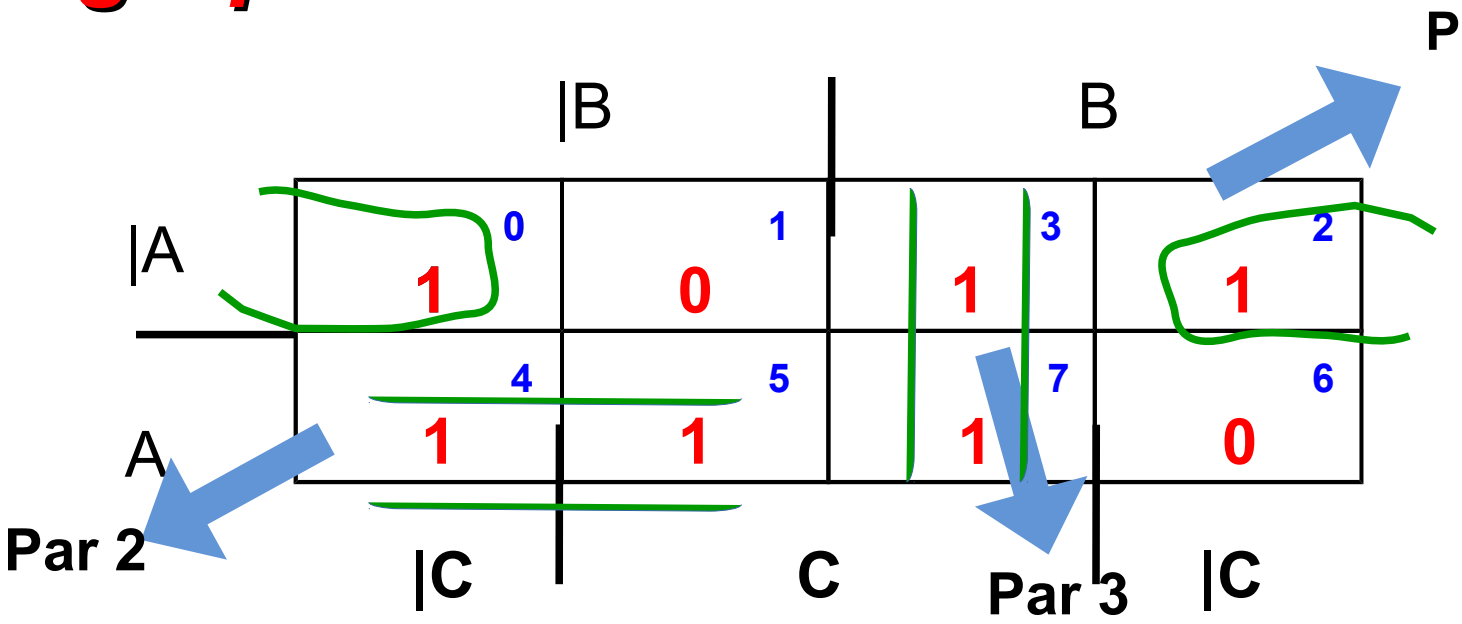


# 2) Agrupamento – OPÇÃO 2



# 2) Agrupamento – Eliminar diferentes




| PAR Nº 1 | | | |
|---|---|---|---|
| Caso | A | B | C |
| 0 | \|A | \|B | \|C |
| 2 | \|A | B | \|C |

→ (|A . |C)

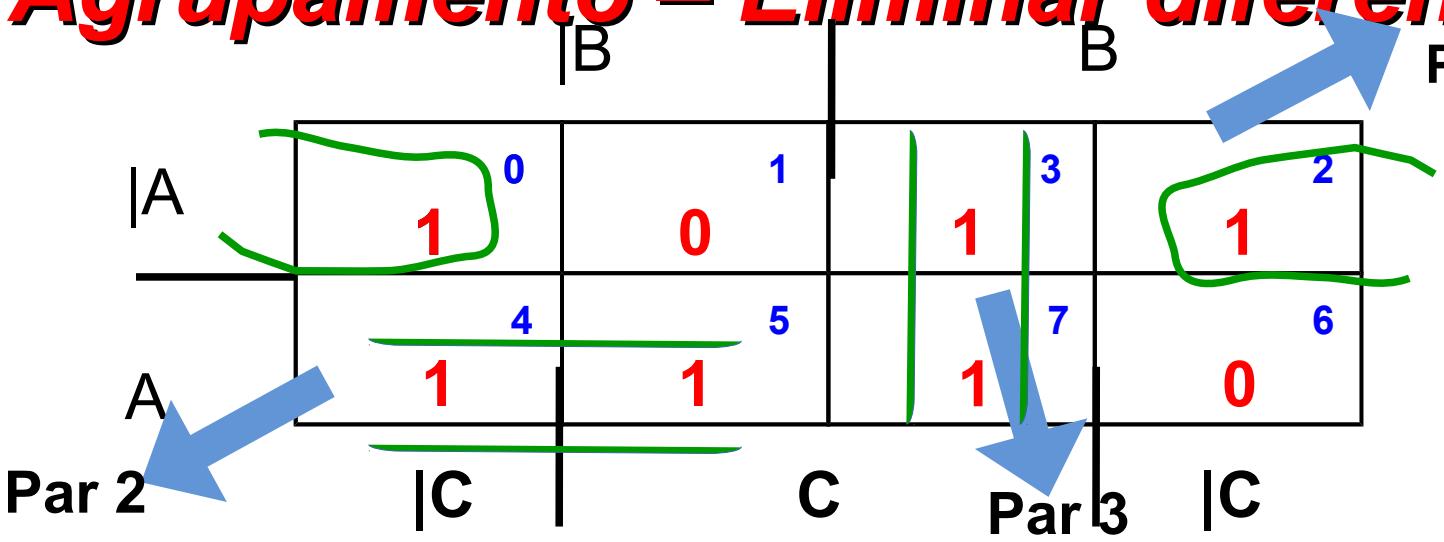
| PAR Nº 2 | | | |
|---|---|---|---|
| Caso | A | B | C |
| 4 | A | \|B | \|C |
| 5 | A | \|B | C |

→ ( A . |B )

| PAR Nº 3 | | | |
|---|---|---|---|
| Caso | A | B | C |
| 3 | \|A | B | C |
| 7 | A | B | C |

→ ( B . C )

# 2) Agrupamento – Eliminar diferentes




| PAR Nº 1 | | | |
|---|---|---|---|
| Caso | A | B | C |
| 0 | \|A | \|B | \|C |
| 2 | \|A | B | \|C |

→ (|A . |C)

| PAR Nº 2 | | | |
|---|---|---|---|
| Caso | A | B | C |
| 4 | A | \|B | \|C |
| 5 | A | \|B | C |

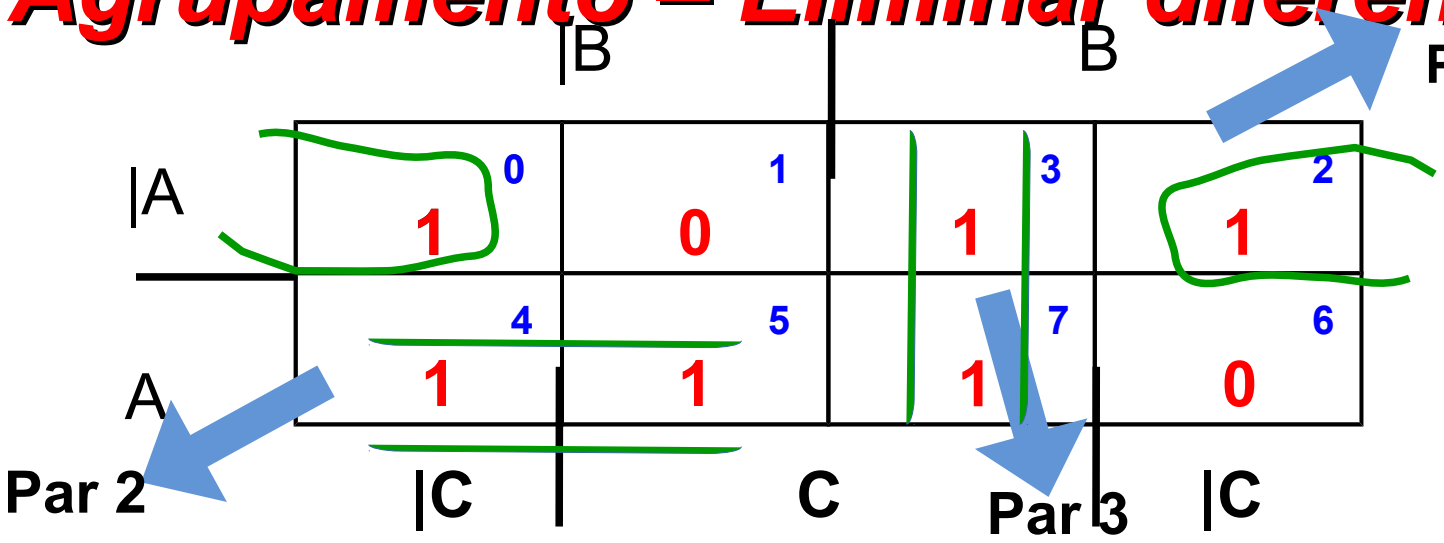
→ ( A . |B )

| PAR Nº 3 | | | |
|---|---|---|---|
| Caso | A | B | C |
| 3 | \|A | B | C |
| 7 | A | B | C |

→ ( B . C )

→ (|A.|B.|C) + (|A.B.C) + (|A.B.|C) + (A.|B.|C) + (A.|B.C) + (A.B.C)

# 2) Agrupamento – Eliminar diferentes




| PAR Nº 1 | | | |
|---|---|---|---|
| Caso | A | B | C |
| 0 | \|A | \|B | \|C |
| 2 | \|A | B | \|C |

→ (|A . |C)

| PAR Nº 2 | | | |
|---|---|---|---|
| Caso | A | B | C |
| 4 | A | \|B | \|C |
| 5 | A | \|B | C |

→ ( A . |B )

| PAR Nº 3 | | | |
|---|---|---|---|
| Caso | A | B | C |
| 3 | \|A | B | C |
| 7 | A | B | C |

→ ( B . C )

→ (|A.|B.|C) + (|A.B.C) + (|A.B.|C) + (A.|B.|C) + (A.|B.C) + (A.B.C)
→ (|B.|C) + (B.C) + (|A.B) + (A.|B)