



**INSTITUTO FEDERAL**  
Santa Catarina

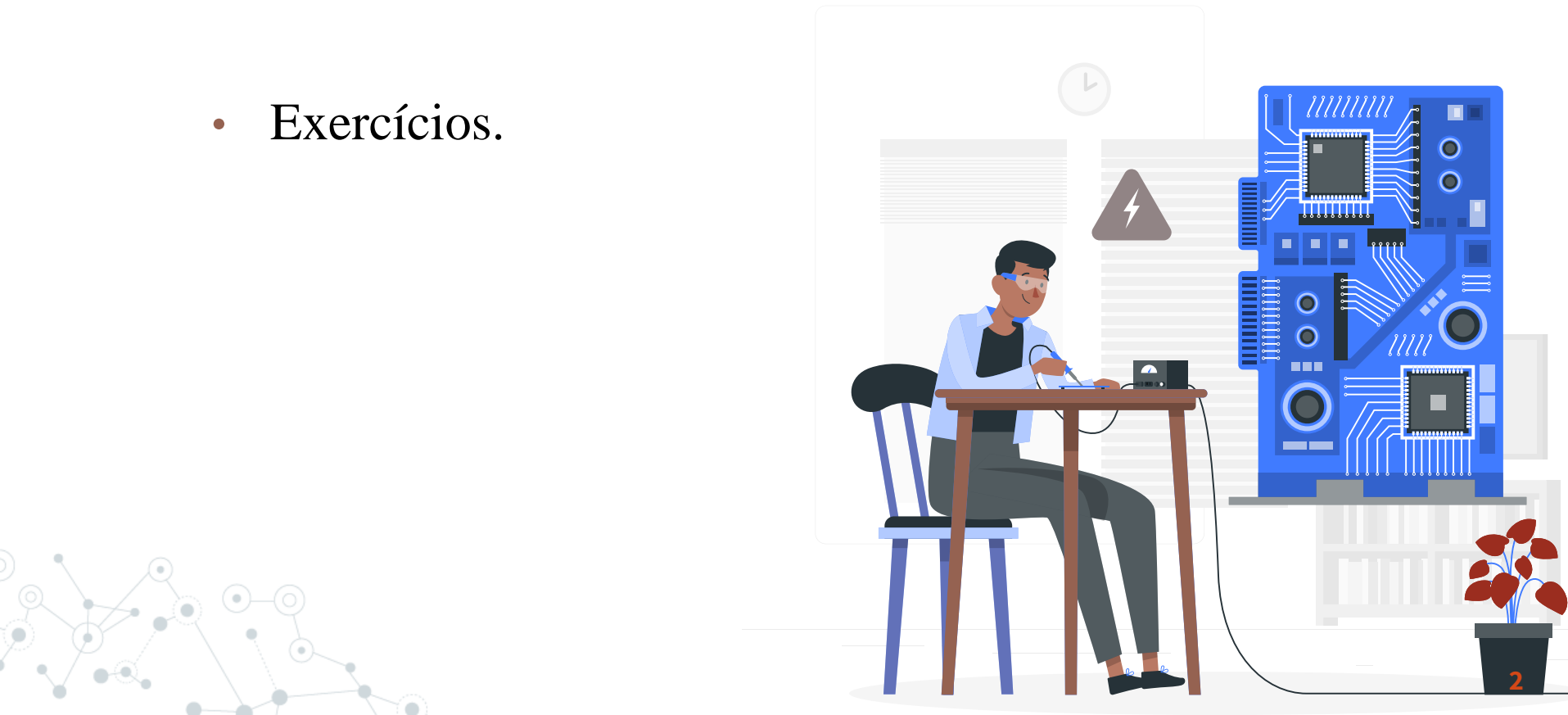
# Eletrônica Digital I

## – Aula 2 – Exercícios

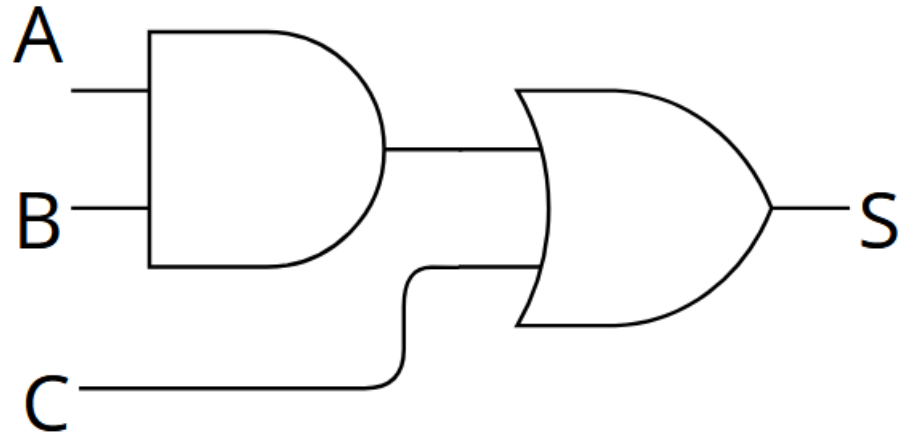
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e-mail: [luciana.xavier@ifsc.edu.br](mailto:luciana.xavier@ifsc.edu.br)

# Conteúdo

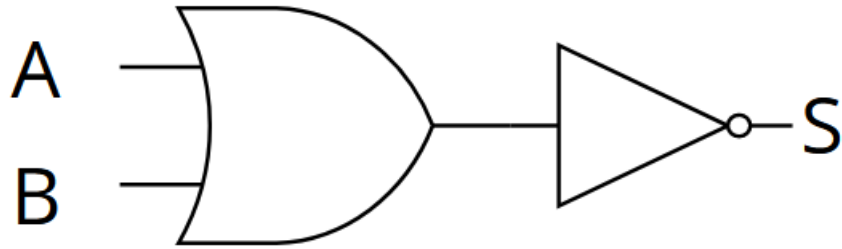
- Exercícios.



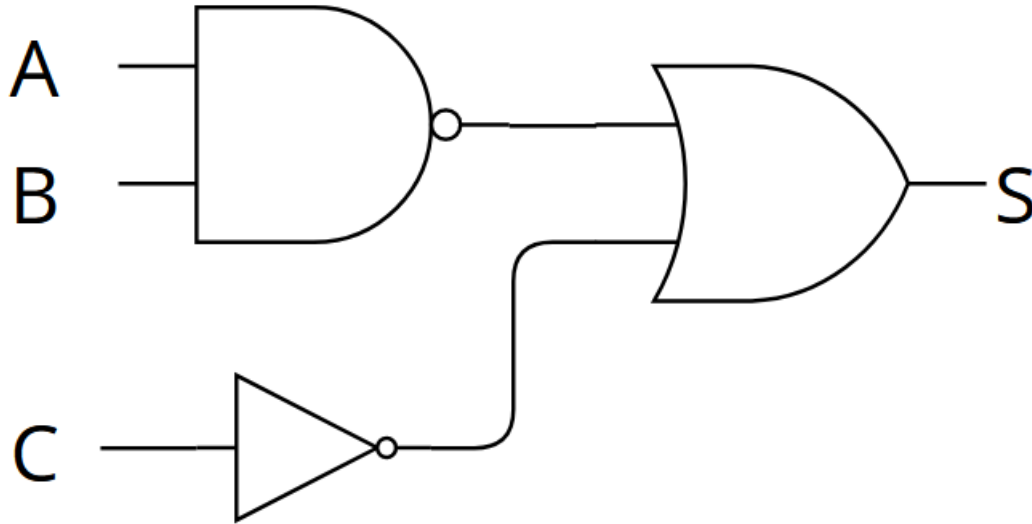
Exercício 1: Escreva a saída S e sua tabela verdade



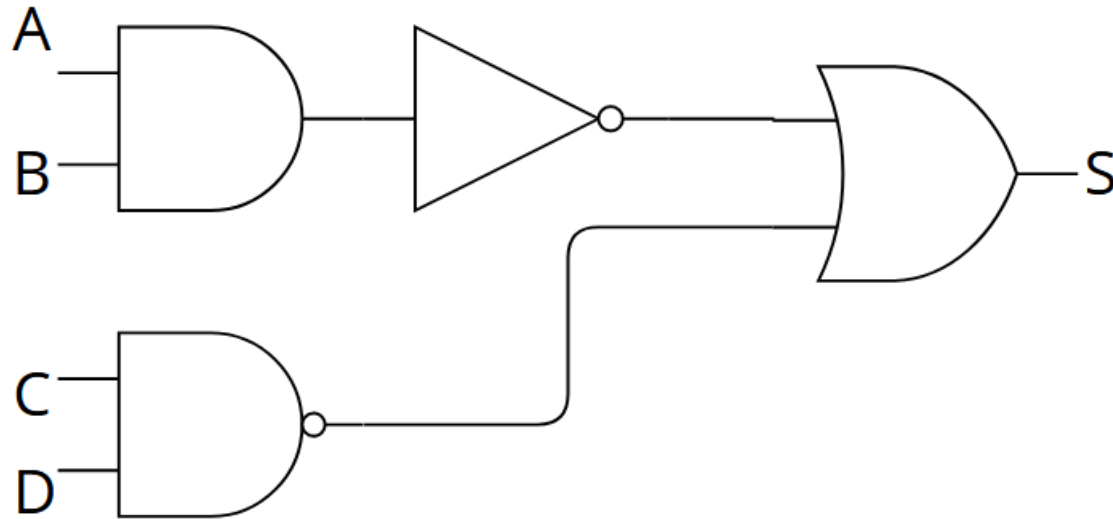
Exercício 2: Escreva a saída S e sua tabela verdade



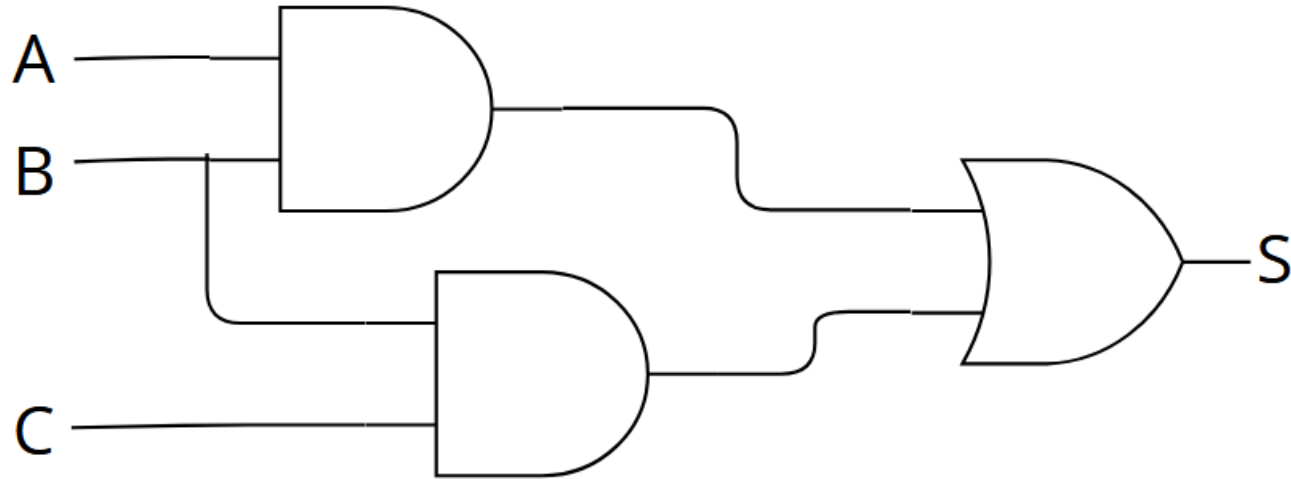
Exercício 3: Escreva a saída S e sua tabela verdade



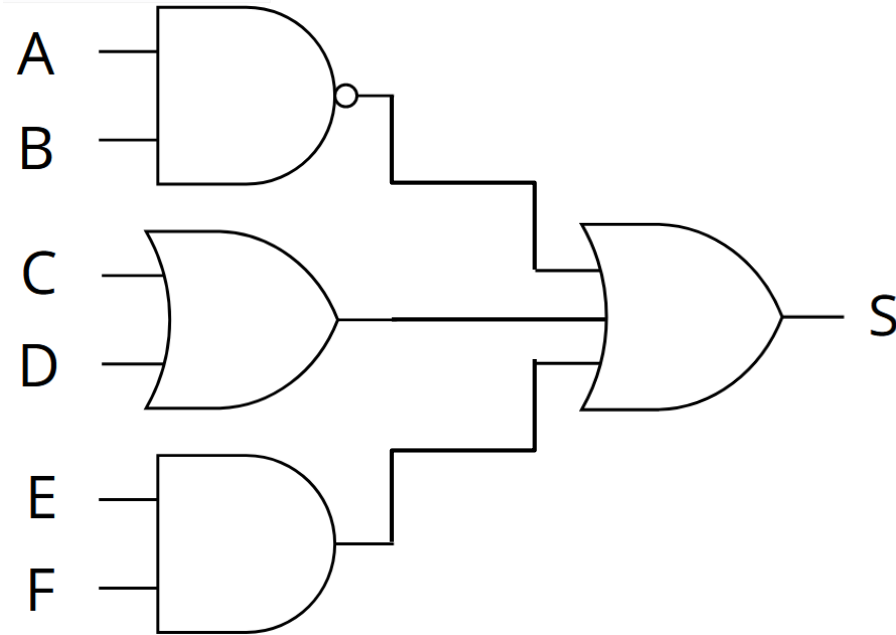
Exercício 4: Escreva a saída S e sua tabela verdade



Exercício 5: Escreva a saída S e sua tabela verdade



## Exercício 6: Escreva a saída S





Vamos fazer o contrário, agora a partir da saída escreva o circuito com as portas lógicas e a tabela verdade.

$$1) \quad X = (A + B)(\bar{B} + C)$$

$$2) \quad Z = \overline{A \cdot B \cdot \bar{C}}$$

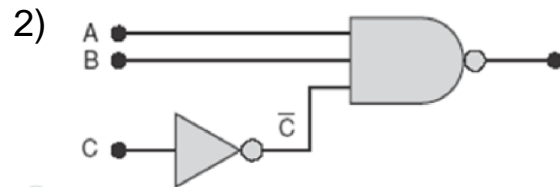
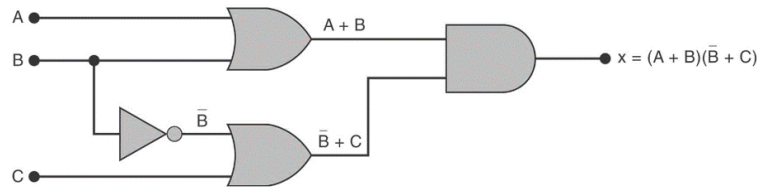
$$3) \quad Z = \overline{\overline{A + B + C}}$$

$$4) \quad X = \overline{A \cdot B \cdot (\bar{C} + \bar{D})}$$

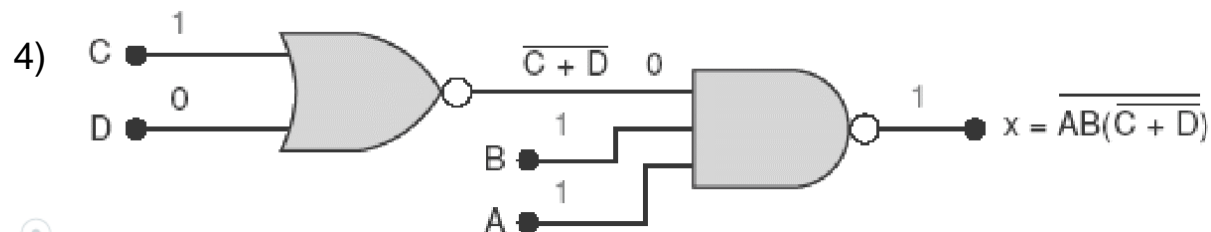
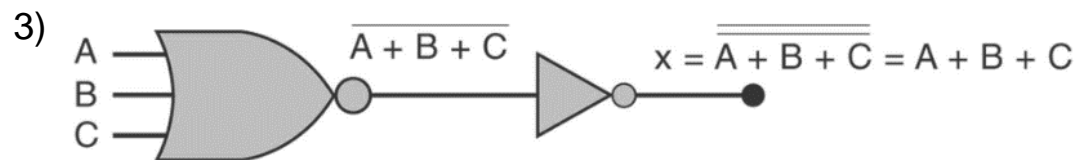



## Gabarito parte 2

1)  $X = (A + B) (\bar{B} + C)$



## Gabarito parte 2





Atividade: Repita todos os exercícios no Logisim e verifique sua tabela verdade