

Instituto Federal de Santa Catarina – Campus Florianópolis

Departamento Acadêmico de Eletrônica



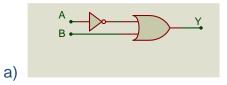
Eletrônica Digital I

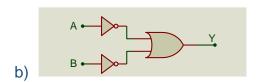
Prof. Matheus Leitzke Pinto matheus.pinto@ifsc.edu.br

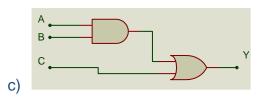
Lista de Exercícios - GABARITO

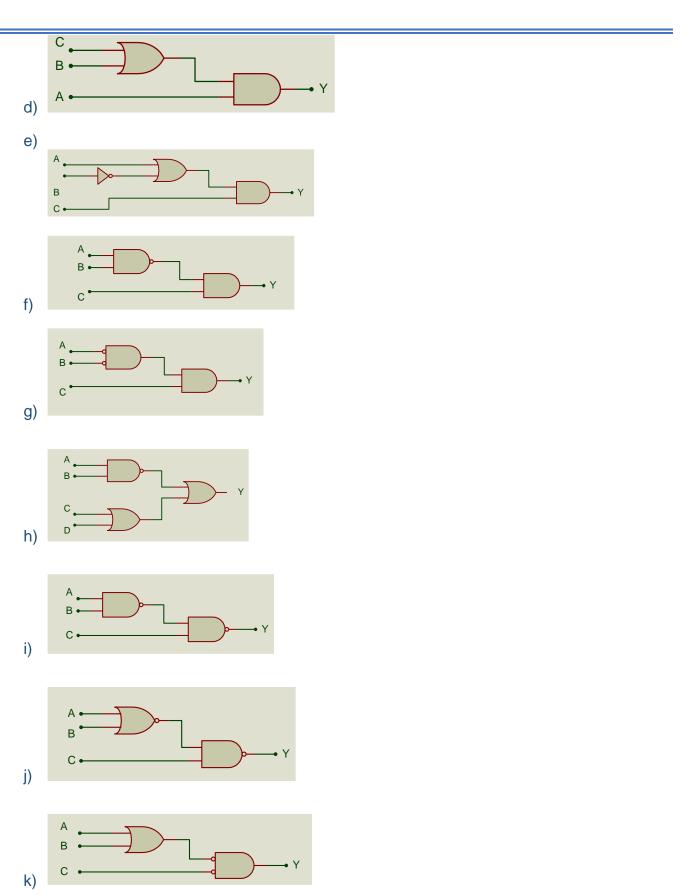
Circuitos e expressões lógicas

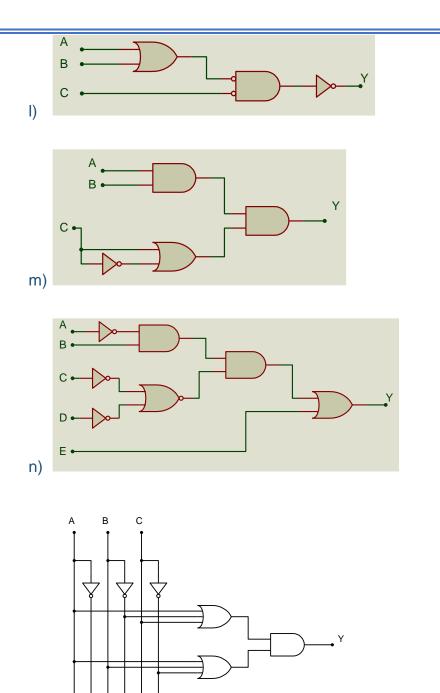
- 1) Obtenha as expressões lógicas dos circuitos do exercício (3) da lista "Circuitos Lógicos".
 - a) $S = A \cdot B + C$
 - b) $S = \overline{A \cdot B} + A \cdot \overline{B}$
 - c) $S = \overline{A \cdot \overline{A \cdot B}} \cdot B + C$
 - d) $S = \overline{(A \cdot \overline{A \cdot B}) \cdot (B \cdot \overline{A \cdot B})}$
 - e) $S = A \cdot B + \overline{C \cdot D} + \overline{C}$
 - f) $S = \overline{A \cdot B \cdot \overline{B \cdot C} \cdot (B + D)}$
 - g) $S_A = \overline{((A \cdot B) \odot A) + ((A \cdot B) \oplus B)}, S_B = ((A \cdot B) \oplus B)) + C$
 - h) $S = \overline{(A \odot B) \cdot ((A \odot B) + (C \oplus D))}$
 - i) $S = ((A \odot B) \oplus A) + ((A \odot B) \oplus B)$
- 2) Obtenha os circuitos lógicos das expressões do exercício (1) da lista "Expressões lógicas".



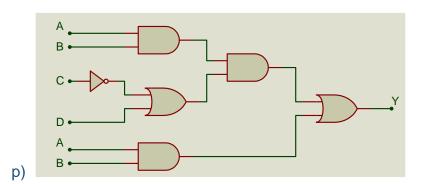


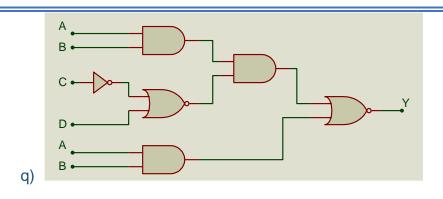


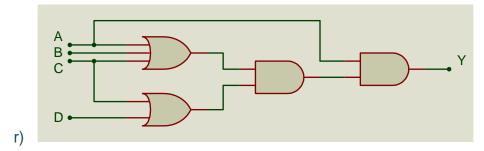


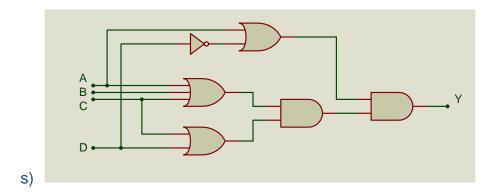


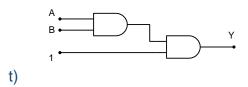
o)

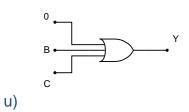


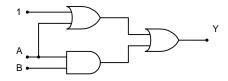




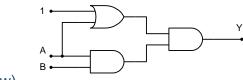








v)



w)

x)

