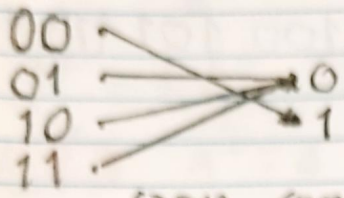
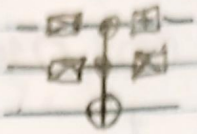
Mayerlly Suárez Correa

Quiz.

6.4.1





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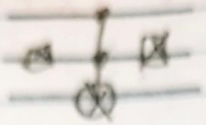
D M A



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010 1
011 1
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101 1 1
110 1
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D M A

6.4.2

$V=[5, 38, 62, 58, 21, 35]^T$

$q = \frac{219}{6} = 36.5$

$VF = [68, 35, 11, 15, 52, 38]^T$

6.4.3 $A^2 = A$. $AA = A$

$$A = \begin{bmatrix} 1/2^n & 1/2^n \cdots 1/2^n \\ 1/2^n & 1/2^n \cdots 1/2^n \\ \vdots & \vdots \quad \ddots \quad \vdots \\ 1/2^n & 1/2^n \cdots 1/2^n \end{bmatrix}$$

es de $2^n \times 2^n$ en tamaño (cuadrada)

por lo tanto la primera componente sería

$$(1/2^n)(1/2^n) + \cdots + (1/2^n)(1/2^n) =$$

$$\frac{2^n}{2^n 2^n} = \frac{1}{2^n}$$

y como todas las componentes (entradas) son iguales se puede afirmar que:

$$A^2 = A$$

D M A

6.4.4

$$V_0 = [-7.6, -7.6, -7.6, -16.4, -7.6]^T$$

$$q = -9.30$$

$$V_F = [-11.72, -11.72, -11.72, -2.32, -11.72]^T$$

$$(-1)(-11.72 - (-2.32)) = 8.8$$

6.4.5.