

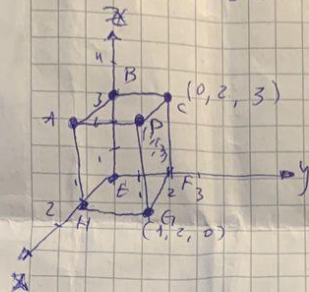
Actividad 3.7

Graficacion
Unidad III

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Actividad 3.7



$$T(t_x, t_y, t_z) = T(3, 3, 6)$$

$$\begin{bmatrix} 1 & 0 & 0 & 3 \\ 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 6 \\ 0 & 0 & 0 & 1 \end{bmatrix} \cdot \begin{bmatrix} 3 \\ 3 \\ 6 \\ 1 \end{bmatrix} = \begin{bmatrix} 3+3 \\ 3+3 \\ 6+6 \\ 1 \end{bmatrix} = \begin{bmatrix} 6 \\ 6 \\ 12 \\ 1 \end{bmatrix}$$

$$\begin{aligned} A &= (1, 0, 3) \\ B &= (0, 0, 3) \\ C &= (0, 2, 3) \\ D &= (1, 2, 3) \\ E &= (1, 0, 0) \\ F &= (0, 0, 0) \\ G &= (1, 2, 0) \\ H &= (1, 0, 0) \end{aligned}$$

$$A_n = \begin{bmatrix} 1+3 \\ 0+3 \\ 3+6 \\ 1 \end{bmatrix} = (4, 3, 9)$$

$$B_n = \begin{bmatrix} 0+3 \\ 0+3 \\ 3+6 \\ 1 \end{bmatrix} = (3, 3, 9)$$

$$C_n = \begin{bmatrix} 0+3 \\ 2+3 \\ 3+6 \\ 1 \end{bmatrix} = (3, 5, 9)$$

$$D_n = \begin{bmatrix} 1+3 \\ 2+3 \\ 3+6 \\ 1 \end{bmatrix} = (4, 5, 9)$$

$$\begin{aligned} E_n &= (3, 3, 6) \\ F_n &= (3, 3, 6) \\ G_n &= (4, 5, 6) \\ H_n &= (4, 3, 6) \end{aligned}$$