VÉRTICES DEL HIPERCUBO

En el hipercubo cada vértice está de acuerdo al siguiente código

$$\mathbf{v} = \begin{pmatrix} \text{Capítulo} \\ \text{Sección} \\ \text{Ejercicio} \end{pmatrix} \in \mathbb{F}$$

donde $\mathbb{F}$ = LIBRO. A continuación se proporcionan los conjuntos de coordenadas.

$$\mathbf{A} = \left\{ \begin{pmatrix} 4 \\ 4.5 \\ 14 \end{pmatrix}, \dots, \begin{pmatrix} 4 \\ 4,5 \\ 20 \end{pmatrix} \right\} \subset [1]$$

$$\mathbf{B} = \left\{ \begin{pmatrix} 2 \\ 2.1 \\ 2 \end{pmatrix}, \dots, \begin{pmatrix} 2 \\ 2.1 \\ 6 \end{pmatrix}, \begin{pmatrix} 2 \\ 2.1 \\ 14 \end{pmatrix} \right\} \subset [2]$$

$$\mathbf{C} = \left\{ \begin{pmatrix} 2 \\ 2.6 \\ 25 \end{pmatrix}, \begin{pmatrix} 2 \\ 2.6 \\ 26 \end{pmatrix}, \begin{pmatrix} 2 \\ 2.6 \\ 27 \end{pmatrix}, \begin{pmatrix} 2 \\ 2.6 \\ 28 \end{pmatrix}, \begin{pmatrix} 2 \\ 2.6 \\ 47 \end{pmatrix} \right\} \subset [9]$$

$$\mathbf{D} = \left\{ \begin{pmatrix} 9 \\ 9.1 \\ 24 \end{pmatrix}, \begin{pmatrix} 9 \\ 9.1 \\ 25 \end{pmatrix}, \begin{pmatrix} 9 \\ 9.1 \\ 41 \end{pmatrix}, \begin{pmatrix} 9 \\ 9.1 \\ 42 \end{pmatrix}, \begin{pmatrix} 9 \\ 9.1 \\ 43 \end{pmatrix} \right\} \subset [5]$$

$$\mathbf{E} = \left\{ \begin{pmatrix} 4 \\ 4.8 \\ 1 \end{pmatrix}, \begin{pmatrix} 4 \\ 4.8 \\ 2 \end{pmatrix}, \begin{pmatrix} 4 \\ 4.8 \\ 10 \end{pmatrix}, \begin{pmatrix} 4 \\ 4.8 \\ 11 \end{pmatrix}, \begin{pmatrix} 4 \\ 4.8 \\ 15 \end{pmatrix} \right\} \subset [8]$$

$$\mathbf{F} = \left\{ \begin{pmatrix} 10 \\ 10.2 \\ 9 \end{pmatrix}, \dots, \begin{pmatrix} 10 \\ 10.2 \\ 12 \end{pmatrix}, \begin{pmatrix} 10 \\ 10.3 \\ 7 \end{pmatrix}, \dots, \begin{pmatrix} 10 \\ 10.3 \\ 11 \end{pmatrix} \right\} \subset [6]$$

$$\mathbf{G} = \left\{ \begin{pmatrix} 4 \\ 4.2 \\ 8 \end{pmatrix}, \dots, \begin{pmatrix} 4 \\ 4.3 \\ 10 \end{pmatrix}, \begin{pmatrix} 4 \\ 4.3 \\ 1 \end{pmatrix}, \begin{pmatrix} 4 \\ 4.3 \\ 3 \end{pmatrix} \right\} \subset [7]$$

$$\mathbf{H} = \left\{ \begin{pmatrix} 5 \\ 5.3 \\ 14 \end{pmatrix}, \dots, \begin{pmatrix} 5 \\ 5.4 \\ 24 \end{pmatrix}, \begin{pmatrix} 5 \\ 5.4 \\ 1 \end{pmatrix}, \begin{pmatrix} 5 \\ 5.4 \\ 2 \end{pmatrix} \right\} \subset [4]$$

$$\mathbf{I} = \left\{ \begin{pmatrix} 2 \\ 2.2 \\ 2 \end{pmatrix}, \dots, \begin{pmatrix} 2 \\ 2.2 \\ 5 \end{pmatrix}, \begin{pmatrix} 2 \\ 2.5 \\ 2 \end{pmatrix}, \begin{pmatrix} 2 \\ 2.5 \\ 4 \end{pmatrix} \right\} \subset [2]$$

$$\mathbf{J} = \left\{ \begin{pmatrix} 1 \\ 1.1 \\ 3 \end{pmatrix}, \begin{pmatrix} 1 \\ 1.1 \\ 4 \end{pmatrix}, \begin{pmatrix} 1 \\ 1.1 \\ 7 \end{pmatrix}, \begin{pmatrix} 1 \\ 1.2 \\ 2 \end{pmatrix}, \begin{pmatrix} 1 \\ 1.2 \\ 3 \end{pmatrix} \right\} \subset [3]$$

Bibliografía

NOTA: Los libros se encuentran en:
https://drive.google.com/drive/folders/1eWm413_kKYEn7gsxrA3aLFtWeZImV7oN?usp=sharing

[1] Anton, H. and Rorres, C., *Elementary Linear Algebra*. 11th Ed. Wiley, U.S.A 2014.

[2] Friedberg, S. et al, *Linear Algebra*. 4th Ed. Pearson, England 2014.

[3] Greub, W. H., *Linear Algebra*. 3th Ed. Springer-Verlag, New York 1967.

[4] Grossman, S., *Algebra Lineal*. 6a. Ed. Mc Graw Hill, México 2008.

[5] Grossman. S., *Aplicaciones del Álgebra Lineal*. 3a. Ed. Grupo Editorial Iberoamérica, México 1988.

[6] Kolman, B. and Hill, D., *Álgebra Lineal*. 8a Ed. Pearson Educación, México 2006.

[7] Lang, S., *Linear Algebra*. 3th Ed. Springer, New York 2000.

[8] Lay,D. et al, *Linear Álgebra and its applications*. 5th Ed. Pearson, Boston E.U.A. 2016.

[9] Strang, G., *Linear Algebra and its applications*. 4th Ed. Cengage Learning, 2006