OPERACIONES CON MATRICES

$$A = \begin{pmatrix} 1 & 0 & 9 \\ -2 & 3 & 2 \\ 1 & 1 & 1 \end{pmatrix} \qquad C = \begin{pmatrix} 1 & 0 & 6 \\ 3 & -1 & 7 \\ 0 & 2 & 1 \end{pmatrix}$$

$$3A = 3\begin{pmatrix} 1 & 0 & 9 \\ -2 & 3 & 2 \\ 1 & 1 & 1 \end{pmatrix} = \begin{pmatrix} 3.1 & 3.0 & 3.9 \\ 3.-2 & 3.3 & 3.2 \\ 3.1 & 3.1 & 3.1 \end{pmatrix} = \begin{pmatrix} 3 & 0 & 27 \\ -6 & 9 & 6 \\ 3 & 3 & 3 \end{pmatrix}$$

$$A+C = \begin{pmatrix} 1 & 0 & 9 \\ -2 & 3 & 2 \\ 1 & 1 & 1 \end{pmatrix} + \begin{pmatrix} 1 & 0 & 6 \\ 3 & -1 & 7 \\ 0 & 2 & 1 \end{pmatrix} = \begin{pmatrix} 1+1 & 0+0 & 9+6 \\ -2+3 & 3-1 & 2+7 \\ 1+0 & 1+2 & 1+1 \end{pmatrix}$$

$$= \begin{pmatrix} 2 & 0 & 15 \\ 1 & 2 & 9 \\ 1 & 3 & 2 \end{pmatrix}$$

Ej. 7. Sección 3

$-3b+2c$

$$b = \begin{pmatrix} 5 \\ -4 \\ 7 \end{pmatrix} \qquad c = \begin{pmatrix} 2 \\ 0 \\ -2 \end{pmatrix}$$

$$-3b = -3\begin{pmatrix} 5 \\ -4 \\ 7 \end{pmatrix} = \begin{pmatrix} -3.5 \\ -3.-4 \\ -3.7 \end{pmatrix} = \begin{pmatrix} -15 \\ 12 \\ -21 \end{pmatrix}$$

$$+2c = 2\begin{pmatrix} 2 \\ 0 \\ -2 \end{pmatrix} = \begin{pmatrix} 2.2 \\ 2.0 \\ 2.-2 \end{pmatrix} = \begin{pmatrix} 4 \\ 0 \\ -4 \end{pmatrix}$$

$$-3b+2c = \begin{pmatrix} -15+4 \\ 12+0 \end{pmatrix} = \begin{pmatrix} -11 \\ 12 \end{pmatrix}$$

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