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$$(A+B)^{h+1} = (A+B)^h (A+B)$$

$$= \left[\binom{h}{0}A^h + \binom{h}{1}A^{h-1}B + \binom{h}{2}A^{h-2}B^2 + \ldots\ldots + \binom{h}{h}B^h\right](A+B)$$

$$= \binom{h}{0}A^{h+1} + \binom{h}{1}A^h B + \ldots\ldots + \binom{h}{h}B^h A + \binom{h}{0}A^h B + \ldots\ldots + \binom{h}{h}B^{h+1}$$

$$= \binom{h}{0}A^{h+1} + \left[\binom{h}{1}+\binom{h}{0}\right]A^h B + \left[\binom{h}{2}+\binom{h}{1}\right]A^{h-1}B^2 + \ldots\ldots + \binom{h}{h}B^{h+1}$$

$$= \binom{h+1}{0}A^{h+1} + \binom{h+1}{1}A^h B + \binom{h+1}{2}A^{h-1}B^2 + \ldots\ldots + \binom{h+1}{h+1}B^{h+1}$$

$$= \sum_{k=0}^{h+1}\binom{h+1}{k}A^{h+1-k}B^k$$

(42) Sea A una matriz cuadrada de orden 2 tal que $A^2 = I$.
Probar que $\rho(A+I) + \rho(I-A) = 2$

Prueba:

1. Según el problema 27, si $A^2 = I$, se ha encontrado que A tiene la forma:

$$A = \begin{bmatrix} a & b \\ \frac{1-a^2}{b} & -a \end{bmatrix} \quad \forall\, a \in \mathbb{R},\ b \in \mathbb{R}-\{0\}$$

2. Si $a = b = 1$, tendremos $\begin{bmatrix} 1 & 1 \\ 0 & -1 \end{bmatrix} = A$

3. Donde:

   a) $A+I = \begin{bmatrix} 1 & 1 \\ 0 & -1 \end{bmatrix} + \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} = \begin{bmatrix} 2 & 1 \\ 0 & 0 \end{bmatrix} \approx \begin{bmatrix} 1 & 1/2 \\ 0 & 0 \end{bmatrix}$ ← el rango de esta matriz es 1.

   $\Rightarrow \rho(A+I) = 1$ ...... se lee "rango de $A+I$"

   b) $I-A = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} - \begin{bmatrix} 1 & 1 \\ 0 & -1 \end{bmatrix} = \begin{bmatrix} 0 & -1 \\ 0 & 2 \end{bmatrix} \approx \begin{bmatrix} 1 & -1 \\ 0 & 1 \end{bmatrix} \approx \begin{bmatrix} 0 & 0 \\ 0 & 1 \end{bmatrix}$ ← el rango de es matriz es 1.

   $\Rightarrow \rho(I-A) = 1$

4. Luego: $\rho(A+I) + \rho(I-A) = 1+1 = 2$

Caso General: Sea A una matriz $n \times n$, tal que $A^2 = I$, probar que

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(43) Sea A una matriz 2×2, tal que, $AB = BA$, $\forall\, B_{2\times 2}$. Probar que existe $\lambda \in \mathbb{R}$, tal que $A = \lambda I$

Solución:

1. Sea $A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$ y $B = \begin{bmatrix} m & n \\ p & q \end{bmatrix}$

   $AB = \begin{bmatrix} a & b \\ c & d \end{bmatrix}\begin{bmatrix} m & n \\ p & q \end{bmatrix} = \begin{bmatrix} am+bp & an+bq \\ cm+dp & cn+dq \end{bmatrix}$

2. $BA = \begin{bmatrix} m & n \\ p & q \end{bmatrix}\begin{bmatrix} a & b \\ c & d \end{bmatrix} = \begin{bmatrix} am+nc & mb+nd \\ pa+qc & pb+qd \end{bmatrix}$

3. Como $AB = BA$, se obtiene el siguiente sistema:

   (1) $am + bp = ma + nc$
   (2) $an + bq = mb + nd$
   (3) $cm + dp = pa + qc$
   (4) $cn + dq = pb + qd$

   $a = ?$ $\quad b = ?$ $\quad c = ?$ $\quad d = ?$

   Ordenar el sistema de ecuaciones:

   (2) $na + (q-m)b \qquad\qquad - nd = 0$
   (1) $\qquad\quad pb \qquad -nc \qquad\qquad = 0$
   (3) $pa \qquad\qquad (q-m)c - pd = 0$
   (4) $\qquad\quad pb \qquad -nc \qquad\qquad = 0$

4. Ahora, resolver el sistema por el Método de Gauss-Jordan. El sistema se reduce a tre ecuaciones, porque la ecuación (1) es igual a la ecuación (4).

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Police said that a witness also reported that "they had reason to believe a black man had assaulted a victim prior to the incident on Central Park West." Those officers are involved in the case.
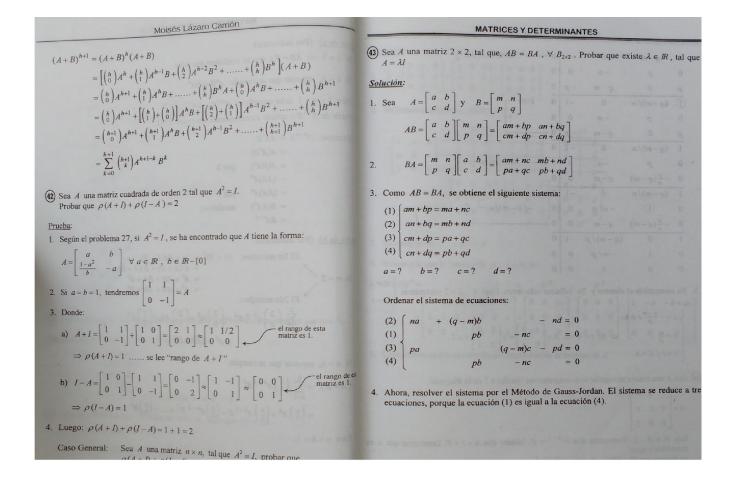
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$(A+B)^{h+1} = (A+B)^h (A+B)$

$= \left[\binom{h}{0}A^h + \binom{h}{1}A^{h-1}B + \binom{h}{2}A^{h-2}B^2 + \ldots\ldots + \binom{h}{h}B^h\right](A+B)$

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(1) $\begin{cases} am+bp = ma+nc \\ (2)\ an+bq = mb+nd \\ (3)\ cm+dp = pa+qc \\ (4)\ cn+dq = pb+qd \end{cases}$

$a = ?$ $b = ?$ $c = ?$ $d = ?$

Ordenar el sistema de ecuaciones:

$\begin{array}{l} (2) \\ (1) \\ (3) \\ (4) \end{array} \begin{cases} na + (q-m)b \quad\quad - nd = 0 \\ pb \quad - nc \quad = 0 \\ pa \quad (q-m)c - pd = 0 \\ pb \quad - nc \quad = 0 \end{cases}$

4. Ahora, resolver el sistema por el Método de Gauss-Jordan. El sistema se reduce a tres ecuaciones, porque la ecuación (1) es igual a la ecuación (4).

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