Correction DS_L2_165 2025

$$\frac{E \times \Delta}{A} = \begin{pmatrix} A & 0 & A \\ 0 & A & 0 \\ A & 0 & 1 \end{pmatrix}$$

$$\frac{A_{AA} = m_{22} = m_{35} = m_{A2} = m_{34} = 1}{m_{24} = m_{25} = m_{A2} = m_{32} = 0}$$

$$\frac{E \times 2(6)}{A} = \frac{A_{AB}}{A} = \frac{A_{AB$$

$$\begin{cases}
12 + 1 & | 32 | 22 \\
12 + 22 + 3 | = 0
\end{cases}$$

$$\begin{cases}
\beta = -7 - 22 = 1 \\
12 + 3 | 2 | = 0
\end{cases}$$

$$\begin{cases}
A^{2} - 4A + I_{2} = 0 \\
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\end{cases}$$

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$$A^{2} -$$

$$\frac{E(X)^{3}}{4} = \pi \begin{pmatrix} 1 & -1 & 0 \\ 0 & 1 & 1 \end{pmatrix} = 3 \qquad \pi(A) = \text{dimension de la native}$$

$$\frac{1}{4} = \frac{1}{4} \begin{pmatrix} 0 & 0 & 1 \\ 0 & 0 & 1 \end{pmatrix} = 3 \qquad \text{olone Anweally}$$

2)
$$AB = \begin{pmatrix} 2 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & 2 \end{pmatrix} = 2 T_3$$
 donc A overlee

2 $\begin{pmatrix} -2 & 4 & -1 \\ -1 & 4 & -1 \\ -1 & 0 & 4 \end{pmatrix}$

$$A^{-1} = \begin{pmatrix} 2 & 4 & -1 \\ -1 & 4 & -1 \\ -1 & 0 & 4 \end{pmatrix}$$

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$$A^{-1} = \begin{pmatrix} -2 & 3 \\ -6 & 4 & -2 & 3 \end{pmatrix} = \begin{pmatrix} -6 & 7 \\ -14 & 45 \end{pmatrix} = \begin{pmatrix} 2 - 2^3 & 2^3 - 1 \\ 2 - 2^4 & 2^4 - 4 \end{pmatrix}$$

2) Initialization, on verify thus f_1 on f_1 on f_2 and f_3 of f_4 of f_4 of f_4 of f_5 of f_6 of f_7 of f_8 of f_8

b)
$$B_{\lambda}I_{3} = I_{3}B$$
 $(2I_{3})^{m} = \sum_{k=0}^{n} {n \choose k} B^{k} (2I_{3})^{n-k}$ A

$$(2I_{3}+B)^{m} = {n \choose 3} B^{3} (2I_{3})^{n} + {n \choose 3} B^{3} (2I_{3})^{n-1} + {n \choose 2} B^{2} (2I_{3})^{n-2} + O_{3}$$

$$A^{2} = 2^{n} I_{3} + n 2^{n-1} B + n(n-1) 2^{n-2} B^{2}$$

$$A^{3} = 2^{n} I_{3} + n 2^{n-1} B + n(n-1) 2^{n-2} B^{2}$$

$$O 2^{n} n2^{n-1}$$

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