$$A = \begin{pmatrix} 1 & -2 \\ 3 & 0 \end{pmatrix} B = \begin{pmatrix} 4 & -1 \\ 0 & 5 \end{pmatrix}$$

$$A + B = \begin{pmatrix} 1 + 4 & -2 + (-1) \\ 3 + 0 & 0 + 5 \end{pmatrix}$$

$$A + B = \begin{pmatrix} 5 & -3 \\ 3 & 5 \end{pmatrix}$$

$$A + B = \begin{pmatrix} 5 & -3 \\ 3 & 5 \end{pmatrix}$$

$$A + B = \begin{pmatrix} 5 & -3 \\ 3 & 4 + 0 & 0 \end{pmatrix}$$

$$A + B = \begin{pmatrix} 4 & -1 \\ 3 & 4 + 0 & 0 \end{pmatrix}$$

$$A + B = \begin{pmatrix} 4 & -1 \\ 3 & 4 + 0 & 0 \end{pmatrix}$$

$$A + B = \begin{pmatrix} 4 & -1 \\ 3 & 4 + 0 & 0 \end{pmatrix}$$

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$$A + B = \begin{pmatrix} 4 & -1 \\ 3 & 4 + 0 & 0 \end{pmatrix}$$

$$A +$$

$$A = \begin{pmatrix} 3 & 7 \\ 3 & -6 \end{pmatrix} B = \begin{pmatrix} 2 & 5 \\ 2 & -1 \end{pmatrix} C = \begin{pmatrix} 7 & 4 \\ 1 & 4 \end{pmatrix}$$

$$3 \begin{pmatrix} 3 & -6 \\ 3 & -6 \end{pmatrix} - 2 \begin{pmatrix} 0 & 5 \\ 2 & -1 \end{pmatrix} + 4 \begin{pmatrix} 2 & -4 \\ 1 & 1 \end{pmatrix}$$

$$- \begin{pmatrix} 3 & -16 \\ 9 & -18 \end{pmatrix} - \begin{pmatrix} 9 & -16 \\ 9 & -18 \end{pmatrix} = \begin{pmatrix} 1 & -16 \\ 9 & -12 \end{pmatrix}$$

$$- \begin{pmatrix} 1 & -5 \\ 9 & -12 \end{pmatrix}$$

$$\begin{array}{lll}
4 & = \begin{pmatrix} 4 & 7 \\ 5 & -2 \\ 2 & 3 \end{pmatrix} & A & = \begin{pmatrix} 4.5 & 2 \\ 1 & -2.3 \end{pmatrix} \\
A & A & = \begin{pmatrix} 4.4 & +1.4 & 4.5 & -1.2 & 4.2 & +1.3 \\ 5.4 & -2.1 & 5.5 & +2.2 & 5.2 & -2.3 \\ 2.4 & +3.1 & 2.5 & -3.2 & 2.2 & +3.3 \end{pmatrix} \\
& = \begin{pmatrix} 17 & 18 & 11 \\ 18 & 29 & 4 \\ 11 & 4 & 13 \end{pmatrix} \\
A & A & = \begin{pmatrix} 4.4 & +5.5 & +2.2 & 4.1 & -5.2 & +2.3 \\ 1.4 & -2.5 & +3.2 & 1.1 & +2.2 & +3.3 \end{pmatrix} = \\
& = \begin{pmatrix} 45 & 0 \\ 0 & 14 \end{pmatrix}$$

 $\begin{cases}
\frac{\sin x - \cos x}{\cos x} \\
\cos x + \sin x + \cos x
\end{cases}$   $\frac{\sin^2 x + \cos^2 x}{\cos^2 x}$ 

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$$9|\frac{234}{567}| = 2 \cdot |\frac{67}{910}| - 3 \cdot |\frac{57}{810}| + 4 \cdot |\frac{56}{89}| =$$

$$= 2 \cdot (60 - 63) - 3 \cdot (50 - 56) + 4(45 - 48) =$$

$$= -6 + 18 - 12 = 0$$

7 D=y; det (A2); det (AT); det (2A) To choice bour oupepelluteda?  $det(A^T) = det(A) = Y$ det (A<sup>2</sup>) = det (A'). det(A) = 4.4=16 Jet (2A) = 2 det A 28 n-silvina cooponise Klaroparion harpures unsprige 4x9 narymures: on pegerlure de marpures 4x9 Syper palen 2 det A = 16-4=64 marpinger 3×3: 23det A = 8.4=32

 $\begin{pmatrix} -2 & 7 & -3 \\ 4 & -14 & 6 \end{pmatrix}$  ecum dot(A) = D  $= -2 \begin{pmatrix} -14 & 6 \\ 7 & 13 \end{pmatrix} - 7 \begin{pmatrix} 4 & 6 \\ -3 & 7 \end{pmatrix} - 3 \begin{pmatrix} 4 & -14 \\ -3 & 7 \end{pmatrix} =$   $= -2 \begin{pmatrix} -14 & 6 \\ 7 & 13 \end{pmatrix} - 6 - 7 \end{pmatrix} - 7 \begin{pmatrix} 4 & 13 \\ 4 & 6 & 3 \end{pmatrix} - 3 \begin{pmatrix} 4 & -14 \\ -3 & 7 \end{pmatrix} =$   $= -2 \begin{pmatrix} -14 & 13 \\ -24 \end{pmatrix} - 7 \begin{pmatrix} 4 & 13 \\ 7 & 7 \end{pmatrix} - 3 \begin{pmatrix} 4 & 13 \\ -3 & 7 \end{pmatrix} = 448 - 490 + 42 =$   $= 0 \quad \text{Bullog: Maxpuya bleps hogeteness}$ 

 $A=\begin{pmatrix} 123\\111\\234\end{pmatrix}$  1 CMP - 2 CMP.  $\begin{pmatrix} 012\\111\\234\end{pmatrix}$  1 CMP =  $\begin{pmatrix} 012\\234\end{pmatrix}$  1 CMP = (0021) 1 CFP+2CAP2 (0022) = 3 CAP (0043) 0022 0022 2356 (2356) 1cop +2cop. (000-1) Sousine 00-4-4 Compayinto 2356) hundre renogn