Lesson 3 (1) a) AB g ne empegenteren, v.R. rucus coolersold + rucus coorses & 8) AB-enpegeneno 2×3
BB-ne enpegeneno (v. a. rucieo conestro 6 B + reneny espon A) 6) AB Jourgeveren 8 x 8 BA Jourgeveren 3 x 3 1) AB y enjegement, o. a. ode Maspellio Reaggarane permiser 4x4 $A+B = \begin{pmatrix} 1 & -2 \\ 3 & 0 \end{pmatrix} + \begin{pmatrix} 4 & -1 \\ 0 & 5 \end{pmatrix} = \begin{pmatrix} 1+4 & -2-1 \\ 3+0 & 0+5 \end{pmatrix} = \begin{pmatrix} 5-3 \\ 3 & 5 \end{pmatrix}$ $A \cdot B = \begin{pmatrix} 1.4 + (-2) \cdot 0 & 1 \cdot (-1) + (-2) \cdot 5 \\ 3.4 + 0.0 & 3(-1) + 0.5 \end{pmatrix} = \begin{pmatrix} 4 & -19 \\ 62 & -3 \end{pmatrix}; BA = \begin{pmatrix} 4.7 - 3.7 & 4(2) - 10 \\ 0.7 + 5.3 & 0(-2) \cdot 50 \end{pmatrix}$ 3. 3A-2B+4C = 3. (3 7)-2. (0 5) + 4 (2 -4) = $= \begin{pmatrix} 3 & 21 \\ 9 & -18 \end{pmatrix} + \begin{pmatrix} 0 & -10 \\ -4 & 2 \end{pmatrix} + \begin{pmatrix} 8 & -16 \\ 4 & 4 \end{pmatrix} = \begin{pmatrix} 11 & -5 \\ 9 & -12 \end{pmatrix}$ $\begin{array}{cccc}
4 & 1 \\
5 & -2 \\
2 & 3
\end{array}$ $A^{T} = \begin{pmatrix} 4 & 5 & 2 \\ 1 & -2 & 3 \end{pmatrix}$ 5-2-2.3 14 1 5 -2 14.4+5.5+2.2 4.1+5/-2/+2.3) 2 11.4-2.5+3.2 1.1-2.(-2)+3.3 2

4esson 4 -cosx = smx-smx-(-cosx)-cosx = sm2x+cos2x=p | 4 2 3 | = 4.59 + 2.1.0 + 0.0.3 - 3.5.0 - 4.0.1 - 2.0.9 = 180 0 0 9 | b) 1 2 3 = 1.5 9+2.6.7 + 4.8.3 - 3.5.7 - 8.6.1 - 2.4.9 = 45+84-96 - 105-48-72 = 0 @) A1=4 a) det (A2) = det (A.A) = no get by /= det A det A = 16 of det (A7) = /no 1 ob-by /= 4 6) det (2A) = det (A+A) = / cuepcobere /= 2 2 det (A), 2pe 4- ko-1-bo copoa/crocorgob/ (3) 4-14 6 Marquis borrongennail, écelle det = 0 A= (4-146) = 1 (-2 4 3 A= (4-146) = 1 (6 0 0 (-3 4 13) (-3 4 13 olet A = 0 (5 cb-bo annex) =) Masheup Enpenepereau =) paux pabeu 2 7 0 0 2 1 12 3 56 0021 1x-2 > 0 0 2 1 0022 000-1/+2 0022 0043 2356 12 3 56 => Laur labeer 3 0021 0001 0000