T15 (Tema 1 - seminar AG) The  $A = \begin{pmatrix} a - b - a b \\ b a - b - a \end{pmatrix}$   $\begin{pmatrix} c - d & c - d \end{pmatrix}$  d c d cSa æ arate sa  $det(A) = 4(a^2+b^2)(x^2+d^2)$ , utilizand The Laplace. 2) Fie A ∈ M2 (TR) aî A²= 02 Fie  $P_A(x) = det(A - x I_2)$  polinomul caracteristic Calculate  $P_A(1) + ... + P_A(m)$ 3 Fig. A =  $\begin{pmatrix} 1 & -1 & 2 \\ 0 & 1 & 3 \end{pmatrix}$ Calculati A', utilizand

a) algoritmul Gauss - Jordan

b) The Hamilton - Cayley

c) formula A' = 14 A\*

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