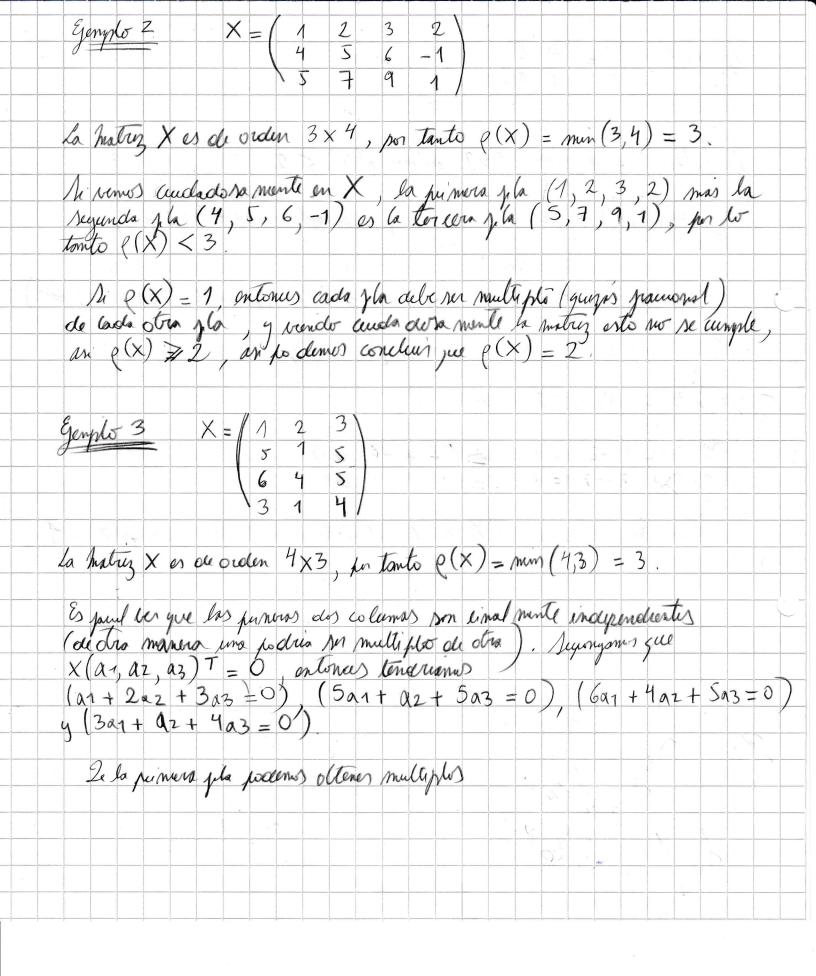
Exercise 1 La metriz X es de orden 2×2 asi que e(X) ≤ 2. 1. a1 (4,6) + a2 (6,9) = 0 (pa gengle 2a1 + 3a2 = 0) 4a1+6a2 = 0 y 6a1+9a2 = 0 (pregnyllo 2a1+3a2 = 0) Como 2 a1 + 3 a 2 re regute en la jla 1 y jla 2 judenes hacer: $\alpha = 3$ y $\alpha z = -Z$, an $2 \cdot 3 + 3 \cdot -2 = 0 \Rightarrow 6 + -6 = 0$ $2 \cdot 3 + 3 \cdot -2 = 0 \Rightarrow 6 + -6 = 0$ Entirues las columnes de X son limente dependientes, an p(x) = 1



Leter nu nantes Para cada matriz cuachada Amam = (aij) existe un valor /A/o det (A) que es la deter mimente de A que es colculada desde los elementos Exemplo del calculo de la deles mi mante a) Una matriz de 2x2 a11 a12 $= 0.11 \cdot 0.22 + 0.12 \cdot 0.21$ 921 Q22 b) Una matrin de 3 x 3 013 212 a22 a23 = an · azz · azz + an azz azz - a1zaz1 azz + a1z azz azz azn + 033 913 921 932 - 913 922 831 La delerminante de la matria 3 x 3 re la expandido a la large de la pu mera gila con cada elemento en la gila multiplicado la celes minante de una sul matrix 2 x 2 obte nuola ju la eleminación de la gla y columna ger contrieven are elements 2 kecks la deter minante de una matriz 3 x 3 podria syresentors como $= A11 \left(A22 \ 0.023 \right) - 0.21 \left(0.12 \ 0.033 \right) + 0.31 \left(0.012 \ 0.013 \right)$ $= A11 \left(A22 \ 0.023 \right) - 0.21 \left(0.012 \ 0.003 \right) + 0.31 \left(0.012 \ 0.003 \right)$ $= A11 \left(0.012 \ 0.003 \right) - 0.21 \left(0.012 \ 0.003 \right) + 0.31 \left(0.012 \ 0.003 \right)$ Examples a la large on la primera columna da las mismos terminos que apondir a la large on la primera gila

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