Germinan 1 - A.G $A = \begin{pmatrix} a & b & c \\ b & c & a \\ c & a & b \end{pmatrix}$ det A = | a b c | Litherly | athre athre atore

det A = | b c a | = | b e e

c a b | c a b = (a+b+c) | b c a | C2-C1(a+bic) | b c-b a-b | c a b | C3-C1 | c a-c b-c | =(a+b+c) | c-b a-b| = (a+b+c) [-(b-c)2-b-b/a-g] = (a+b+c) [-b2+2bc-c2-a2+ac+ab-bc] =-(a+b+c) (a2+b2+c2-ab-ac-bc) = - 1 (a+b+c) (2a2+2b2+2c2-2ab-2ac-2bc) 2-1 (a+b+c) (22-2ab+b2+b2-2bc+c2+a2-20c+c2) $b = -\frac{1}{2}(a+b+c)(a-b)^2 + (b-c)^2 + (a-c)^2$ $P) = \begin{pmatrix} \sigma_1 & \rho_2 & \sigma_2 \\ \sigma & \rho & \sigma \end{pmatrix}$ = 1. (-1) 1 b-a c-a (b-a) (b-a) (b+a) (e-a) (c+a) =(b-a)(c-a). | b+a c+a = (b-a)(c-a)(c+a-b-a) = (b-a) (c-a) (c-b)

Ex 2:
$$A = \begin{pmatrix} 2 & -1 & 3m+4 \\ -1 & -1 & 0 \end{pmatrix}$$

al $w = ?$ a. $?$ $A^{-1} \in M_3(2)$

b) $A^{-1} = ?$ $m = 0$

a) $A^{-1} = \frac{1}{4\pi}A$ $A^{+} \in M_3(2) \in ?$
 $A \cdot A^{-1} = A^{-1} \cdot A = !_{3} \mid dat$

dat $A \cdot dat(A^{-1}) = !_{3m+4} \mid dat = \pm 1$

dat $A \cdot dat(A^{-1}) \in \mathbb{Z}$

dat $A = \begin{vmatrix} 2 & -1 & 3m+4 \\ -1 & -1 & 0 \end{vmatrix} = (-5-3m^{2}+3m-4w+4)$
 $= 8m^{2} + m - 1$
 $= 8m^{2} + m - 1$
 $= 8m^{2} + m - 1 = !_{3m+4} = 3m^{2} + m - 2 = 0$
 $= 8m^{2} + m - 1 = !_{3m+4} = 3m^{2} + m - 2 = 0$
 $= 8m^{2} + m - 1 = !_{3m+4} = 3m^{2} + m - 2 = 0$
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 $= 8m^{2} + m - 1 = 1 = 3m^{2} + m - 2 = 0$
 $= 8m^{2} +$

b)
$$A = \begin{pmatrix} 2 & -1 & 3m+1 \\ 1 & m & 1 \end{pmatrix} \in \mathcal{U}_{3}(2) \quad m = 0$$
 $A^{4} = \begin{pmatrix} 2 & 1 & -1 \\ -1 & 0 & -1 \\ 4 & 1 & 0 \end{pmatrix}$
 $A^{3} = \begin{pmatrix} -1 & 41 & 0 & -1 \\ -1 & 3 & 1 \end{pmatrix}$
 $A_{11} = \begin{pmatrix} -1 \end{pmatrix}^{141} \begin{vmatrix} 0 & -1 & -1 \\ -1 & 3 & 1 \end{pmatrix} = -4$
 $A_{12} = \begin{pmatrix} -1 \end{pmatrix}^{142} \begin{vmatrix} -1 & -1 & -1 \\ -1 & 1 & -1 \end{vmatrix} = -1$
 $A_{22} = \begin{pmatrix} -1 \end{pmatrix}^{243} \begin{vmatrix} 2 & 1 & -1 \\ -1 & 1 & -1 \end{vmatrix} = 2$
 $A_{31} = \begin{pmatrix} -1 \end{pmatrix}^{3+1} \begin{vmatrix} 2 & 1 & -1 \\ -1 & 1 & -1 \end{vmatrix} = 2$
 $A_{32} = \begin{pmatrix} -1 \end{pmatrix}^{3+1} \begin{vmatrix} 2 & -1 & -1 \\ -1 & 1 & -1 \end{vmatrix} = -1$
 $A_{33} = \begin{pmatrix} -1 \end{pmatrix}^{3+1} \begin{vmatrix} 2 & -1 & -1 \\ -1 & -1 & -1 \end{vmatrix} = 1$
 $A_{34} = \begin{pmatrix} -1 & 3+1 \\ -1 & -1 & -1 \end{vmatrix} = -1$
 $A_{35} = \begin{pmatrix} -1 & 3+1 \\ -1 & -1 & -1 \end{vmatrix} = -1$
 $A_{35} = \begin{pmatrix} -1 & 3+1 \\ -1 & -1 & -1 \end{vmatrix} = 1$
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OBS:
$$A \in \mathcal{U}_{M}(c)$$
 $A + A^{-1} = A^{-1}A = 1_{M} / \Delta ct$
 $A + A^{-1} = A^{-1}A = 1_{M} / \Delta ct$
 $A - A^{-1} = \frac{1}{\Delta t} A A^{-1} / \Delta ct$
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$$0 = (\operatorname{Th} A)^{1/2} = \operatorname{Th} A$$

$$0 = (\operatorname{Th} A)^{1/2} = \operatorname{Th} A = 0$$

$$= \operatorname{Sh}^{2} = 0_{2}$$

$$= \operatorname{XII}: \quad f: \operatorname{Il}_{2}(\operatorname{Cl}) \to \operatorname{Il}_{2}(\operatorname{Cl}), \quad g(x) = x^{m} \quad \text{mu e iny};$$

$$\operatorname{mu} = \operatorname{susy} \quad \text{pt} \quad \operatorname{mixium} \quad m > 2$$

$$\operatorname{Fix} \quad \chi_{1} = 0_{2} = \operatorname{S}(\chi_{1}) = 0_{2} \quad g(\chi_{1}) = \operatorname{S}(\chi_{2})$$

$$\operatorname{Fix} \quad \chi_{2} = (0) = \operatorname{S}(\chi_{2}) = 0_{2} \quad \text{den } \chi_{1} \neq \chi_{2}$$

$$\operatorname{X}_{2}^{2} = (0) \quad (0) \quad$$