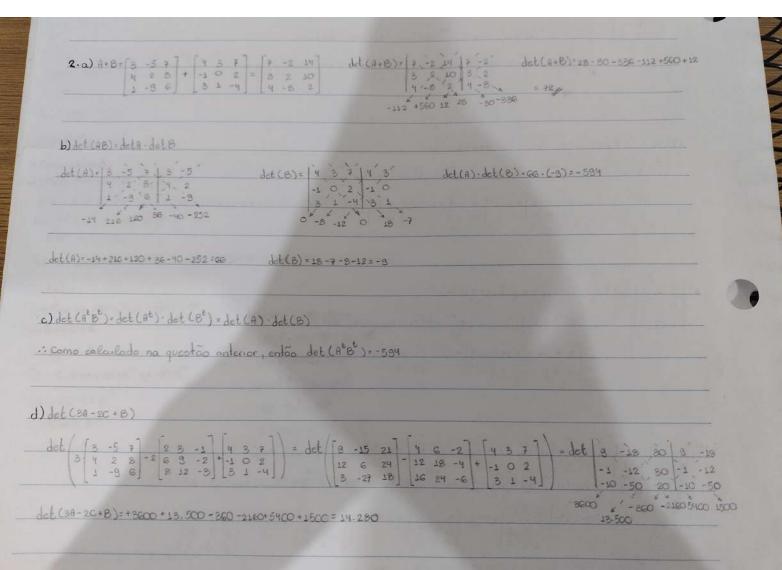
```
tal que AB=BA . In, unde In. (off) non é a identidade de ordem n. Dé denominada matriz inversa de A
                                                                                                                                                                                                                              LIDTA 2 (GA) - DETERMINANTES E MATRIZ
                                        * Notacie: P. A.
                                                                                                                                                                                                                                                                     b) | 1/2 3/6 | 1/2 3/6 |
                                                                                                                                                                                                                                                                                                                                                                       $ 13. (-1)" $ 5 + 3. To . (25)" 2
                                                  det(c) = 0 2 det(c) = 6 2 det(c) = 6 2 det | 0 2 | +0.(1) 2 det | 0 2 | + 0.(1) 2 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 3 4 det | 0 2 | + 0.(1) 
                                                                                                                    =3.1 ( 011 . 011 + 010 . 015 )
                                                                                                                · 3 · 2 (0 · (-2) * dot | 2 | * 2 · (-1) * dot | -2 |)
                                                                                                               -3.3(2) = 20
                               =-2.1. (dis dis +diz+diz)+1.(1). (dis dis+diz diz)+(-1).1. (dis dis+diz diz)
                                                                                                                      =-2(5.(-1)": det |2|+4.(-1)": det |4|)+(-1)(1.(-1)": det |2|+4.(-1)": det |-3|)+(-1)(1.(-1)": det |4|+5.(-1)": det |3|
                                                                                                                     =-2(5.1.2.4.(-1).4)+(-1)(1.1.2.2+4.(-1).(-3))+(-1)(1.1.4+5.(-1).(-3))
                                                                                                                    =-2(10-16)+(-1)(2+12)+(-1)(4+16)=12-14-19=-21/
               (5
                                                                                                             det(E) . e11. E1+ E12. E12+ E18. E18
                      \det(\mathbf{E}) = \begin{array}{c|c} 0 & 2 & 0 \\ 1 & 3 & 5 \\ 2 & -1 & 2 \end{array} = 0 \cdot (-1)^{\frac{1+1}{2}} \det \begin{bmatrix} 3 & 5 \\ -1 & 2 \end{bmatrix} + 2 \cdot (-1)^{\frac{1+2}{2}} \det \begin{bmatrix} 1 & 5 \\ 2 & 2 \end{bmatrix} + 0 \cdot (-1)^{\frac{1+3}{2}} \det \begin{bmatrix} 1 & 3 \\ 2 & -1 \end{bmatrix}
                                                                                                              = 2.(-1).(e'1. e'1+ e'2. e'12) = -2.(1.(-1)** det |2| + 5.(-1)** det |2|)
                                                                                                              =-2(2+10(-1))=-2.(-8)=16/
           det(F) = \begin{vmatrix} 3 & -1 & 1 & 1 \\ 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 \end{vmatrix} = 3 \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1 \\ -1 & 1 & 0 \\ 0 & 1 & -1 \end{vmatrix} + O \cdot (-1)^{2+1} \cdot \det \begin{vmatrix} 1 & 0 & 1
        F)
                                                                                                                            =8(1.(1-0)+0+1(-1-0)) -361+0-1) = 3(-2)=-64
10 -3 6 1 0
                                                                                                                                                             =3(J5.(1).det 53 ) = 3.(J5.(-1).(0-3) = 9.5/
```

corema - -- A: (a:1) nxn possui matrix inversa, essa inversa é unica [demo]. Segam B e C inversas de A. AB: BA: I

Bé; h)

4 P: $\det(H) = \begin{pmatrix} 3 & 0 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 2 & 0 \end{pmatrix}$ = 3.(-1)^{1,1} $\det(0 & 0 & 0^{-2})$ = 3.(-1)^{1,1} $\det(0 & 0 & 0^{-2})$ = 3.(-2.(-1)^{1,1} $\det(0 & 2 & 0)$) = 3.2.(h₁₁·h₁₁·h₁₂·h₁₂·h₁₂·h₁₃·h₁₃·h₁₃)

= 6(2.(-1)^{1,2} $\det(0 & 1)$ = -12.(0+2) = -24



| det (A)=13 -5 7 1 8 -5 | det (c) = 1 2 3 -1 | 12 3 | det(A). det(C) = 66.0 = 01 |
|---|---|-----------------------------------|---|
| 4 2 8 4 2 | 8 12 -3 | 8 12 | |
| det (A) = 3 -5 7 3 -5 4 2 8 4 2 1 -9 6 1 -9 -14 216 120 20 -40 -252 | 8 12 -2 8 12 -2 72 48 54 | -54 -48 -72 | |
| det(A)=-252-24-40+36+220+226 | =66 det (c) · 72 | 2 + 4,8 + 54 - 54 - 48 - | 72×0 |
| (a) det(At): det(A): -2, | b) det (GA) = 6" det (A) = | 64. (-2) = -2592 | Se training and the second |
| c) det (A ⁷) = (det (A)) ⁷ = (-2) ⁷ = -12 | a, d) det(A-1) = (det | (A))-1 (-2)-1 = - | ./ |
| (a) a b c | 4.(-3)=-12 _/ | a b -2c 3d 3e -6f = 8 h -2i | a b -2+1:2 a b 0 = 0// 3d 3e -6+3:2 = 3d 3e 0 = 0// 8 h -2+1:2 8 h 0 |
| c) -a -p -c a b | c a b c c c f ermo | tação de f | =-(-8)=3, |
| d) ghi abe ester ghi def ester | ez + ez d e f g h i | :: lame foram | mesmo, então: g h i a b c = 3/ |
| e) a b c a 2d+a 2e+b 2f+c = 2d 8 | | | |
| f) ka+a kb+b ck+c a b d e f = d e d h | c ka kb ak + d e f + | ,-3+k(-3) →- | P(7+K) ¹ |
| 10 8 40 -2 5 4 2 4 6 20 -4 4 6 2 -5 -7 -30 1 -+2·10 3 -6 3 | -1 + 3·2·10 5 4 2 4 6 3 5 7 - 2 5 7 - | 2 -1 5 2 -9 60·2 2 3 1 9 1 | 4 2 -3 3 1 -2 -7 -3 1 -2 1 4 0 -3 -1 0 2 3 1 -2 -5 -7 -3 1 1 -2 1 4 |
| (A) = a12 (-1) det a11 + a12 · (-) | 12+2 det a12 + a13 (-1) | 1+3 det a13 + 0 | 14. (-1) det land |
| | | | 5 -2 + 0. (-1) · det 2 3 1 7 1 -5 -7 -3 1 -2 1 |
| - 3 2 3 -2 2 1 + (-1) -5 -3 1 -5 -3 -6 -2 20 -24 1 20 -14 | 2 3 -2 2 3 = 3 -5 -7 1 -2 4 5 -2 | 3 (42 - 32) + (-1)(| 67-82)=3(9)+(-1)(-15)=27+15=42-12 |

| 6. | 4 6 x 4 6 1 4 8 1 4 8 1 7 4 2 -+2x 7 2 2 -+128 -+ 2x - 32128 -+ 64 x128 -+ x2 |
|--|--|
| | 5 2 -x 5 2 -3 5 1 -3 |
| | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| | 20 -8 21 -8 80 7 |
| - | |
| | 8 5 7 8 5 8 5 8 2 1 3 5 8 1 × 13 23 |
| - | 467 467 |
| | 3 5 7 3 5 2 1 3 2 1 4 6 → 84-71=13 |
| -28 | 54-90 21 60 84 |
| | |
| | +8 x+1 x+4 |
| | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| | 3 40 7 18 40 7 18 10 7 -45 -30 -28 85 27 40_180 -90_28 105 27 160 |
| | X= 1/V |
| - 1 | |
| d) × | |
| 7) × | $x+2$:0 + $x^2-x+2=0$ + $S=1$ P_{E-2} x_{1E-1} $x_{2}=2$ |
| _d) × | $x+2$:0 + $x^2-x+2=0$ + $S=1$ P_{E-2} x_{1E-1} $x_{2}=2$ |
| | $x+2$: 0 + $x^2-x-2=0$ + $S=1$ $P_{S}=2$ $x_{1}S=1$ $x_{2}S=2$ $x_{2}S=2$ $x_{3}S=2$ $x_{4}S=2$ $x_{2}S=2$ $x_{3}S=2$ $x_{4}S=2$ $x_{5}S=2$ |
| | $x+2$: 0 + $x^2-x-2=0$ + $S=1$ $P_{S}=2$ $x_{1}S=1$ $x_{2}S=2$ $x_{2}S=2$ $x_{3}S=2$ $x_{4}S=2$ $x_{2}S=2$ $x_{3}S=2$ $x_{4}S=2$ $x_{5}S=2$ |
| e)/x- | $x+2$: 0 + $x^2-x-2=0$ + $S=1$ $P_{S}=2$ $x_{1}S=1$ $x_{2}S=2$ $x_{2}S=2$ $x_{3}S=2$ $x_{4}S=2$ $x_{2}S=2$ $x_{3}S=2$ $x_{4}S=2$ $x_{5}S=2$ |
| e)/x- | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| e)/x- 2 c | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| e)/x- 2 c | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| e) (x- 2 | $\begin{array}{c} x+2 \\ x \\ \end{array} \begin{array}{c} 0 \\ 3 \\ \end{array} \begin{array}{c} + \\ 0 \\ \end{array} \begin{array}{$ |
| e)/x- 2 e | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| e)/x- 2 6 1. a) A A-1. 1 | $\begin{array}{c} x+2 \\ x \end{array}) : 0 \ + x^2 - x - 2 = 0 \ + S = 1 \ P_2 - 2 \ \times_1 = -\frac{1}{2} \ \times_2 = 2 \\ x \end{array}) = 0 \ + x \times_2 = 0 \ + x \times_3 = 0 \ + x \times_4 = 0 \ + x \times_2 = 0 \\ 0 \ x \times_3 = 0 \ + x \times_3 = 0 \ + x \times_4 = 0 \ + x \times_2 = 0 \\ 0 \ x \times_3 = 0 \ + x \times_4 = 0 \ + x \times_2 = 0 \\ 0 \ x \times_3 = 0 \ + x \times_4 = 0 \ $ |
| 7. a) A det | $\begin{array}{c} x+2 > 0 \\ x > 2 \\ x > 0 \end{array}$ $\begin{array}{c} x+2 > 0 \\ x > 2 \\ x > 0 \end{array}$ $\begin{array}{c} x+2 > 0 \\ x > 0 \end{array}$ $\begin{array}{c$ |
| 1. a) A A-1. 1 det | $\begin{array}{c} x+2 \\ x \\ \end{array} \begin{array}{c} x+2 \\ \end{array}$ |
| e) (x- 2 6) (x- 2 6 6 1. a) A det | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| e) (x- 2 6) (x- 2 6 6 1. a) A det | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |

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Den

i) Se

B.(

Has

(Re 7.b) A: \begin{pmatrix} 3 & 1 \\ 5 & 2 \end{pmatrix} B: \begin{pmatrix} 4 & 7 \\ 1 & 2 \end{pmatrix} AB: \begin{pmatrix} 1 & 2 \\ 1 & 2 \end{pmatrix} AB: \begin{pmatrix} 13 & 23 \\ 22 & 39 \end{pmatrix}

a: \begin{pmatrix} 1 & 3 & 1 \\ 3 & 2 & 1 \end{pmatrix} B: \begin{pmatrix} 2 & -1 \\ -1 & 4 \end{pmatrix} AB: \begin{pmatrix} 1 & 2 & 3 \\ 22 & 39 \end{pmatrix}

(A) AB: \begin{pmatrix} 2 & -1 \\ -1 & 4 \end{pmatrix} AB: \begin{pmatrix} 2 & -1 \\ -1 & 4 \end{pmatrix} AB: \begin{pmatrix} 2 & -23 \\ -22 & 13 \end{pmatrix}

B: \begin{pmatrix} 2 & -1 \\ -1 & 4 \end{pmatrix} AB: \begin{pmatrix} 2 & -1 \\ -1 & 4 \end{pmatrix} AB: \begin{pmatrix} 2 & -23 \\ -22 & 13 \end{pmatrix}

AB: \begin{pmatrix} 2 & -1 \\ -1 & 4 \end{pmatrix} AB: \begin{pmatrix} 2 & -1 \\ -1 & 4 \end{pmatrix} AB: \begin{pmatrix} 2 & -1 \\ -1 & 4 \end{pmatrix} AB: \begin{pmatrix} 39 & -23 \\ -22 & 13 \end{pmatrix}
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Teo

au (1) det 21 au (1) det -21 b) 8=/2 -2 0\ bin=(-1)1+1 det | 2 1 | B22 = (-1)212 det 2 0 9.a) A-1: 1 adj(A) ad (A) (A) A11: (21) det [1] A12=(-1) +det |31 A11 1 10 Asg: - 3 det (A): -2 -2 b) 2-20\ ady (B)=(B)t B== (-1) det 2 01 Bes= (-1) det 2 -21 82=(-1) det -20 | B22=(-1) det 2 sniral' 832 - 2

ady 8 = (8) t Bas: (-1) - det | 2 -2 82 1 ady 8 adr8=1-3 -2 84-3 1 1 1 -2 -2 dete B28=4·(4-2) -2 -2 2 / B33= 2 del(8) 2 -20 det(8)=-8 1 2 1 -8 1 -2 -2 C12=(-1), det 2 -1 | C18=(-1), det 2 0 | C21=(-1), det -1 1 C17 = (-7) - 9 = 10 -7 0)10-11 10 0 Cu=1.(0+1) C22=(-1).(-1) C12=(-1) · (0+1) C21 = 1/ C12=-1 C13 = 2 C23=(-1) - det | 0 -1 022=(-1)2+2 det 0 1 0-1 C22=1-(0-1) Cas = 1 · (0+2) C23=(-1) · (0+1) C81=1 · (1-0) C32=(-1).(0-2) C32= 24 C22 = -1 C31=14 odje = (E)t det C=0+((-5)·(-1)·2)+(1·2·1)-((1·0·1)+(0·(-1)·1)+((-1)·2·0) adj C = 1 C=/1 -12) 7 -7 -7 detc:0+1+2-0-0-0:3 1 2 2 / -1 -1 2 + Dx=(-1) · det 0 0 0 D14=(-1) det 0 1 0 D11=(-1)11 det 0 2 3 D13=(-1) det 0 1 0 d) (1 0 0 1) 0 1 0 0 2 0 2 3 0 0 -1 0 203 202 10 -1 01 D12= (-1) . O Dis=1.(3) D13 = 0 D14: -2 D12=0, D11:3, D23=(-1) det 1 0 1 | D24=(-1) det 1 0 0 | Des= (-1) - det | 0 0 1 Do2 = (-1) det 10 1 223 203 202 0 2 3 000 0 0 -3 0-10 Das = (-1) . 0 D24 = 0 D22 1 (1) = 1 D23=0 D22=0/

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Esendo de da webcam

spirali

Dez=(-1) · det | 1 0 1 |
D==(-1) · det | 0 0 0 | 0000 D D34=14 DB1 : -1 D32 0, D44: (-1) · det 1 0 0 1 0 2 2 Dys: (-1) · (2) | 0 0 1 | 0 0 0 | Dys: (-1) · (2) | 0 2 3 | Dus=(-1).1=-1 Du2:02 D41 = - 2 adj (D) = [cof(D)]t ody (0) = 3 0 -1 -2 \ 0 1 0 0 \ 0 0 -1 \ -2 0 1 2 01001 1-20-12 det 1 0 1 0 1 0 1 2 0 3 Det (D) = dus dus + dus dus + dus dus + dus duy D-1; 1 000-1

