3. Elickson Miller

$$\begin{pmatrix} 1 & 0 & 0 \\ a & 1 & 0 \end{pmatrix} \cdot \begin{pmatrix} 1 & 0 & 0 \\ -a & 1 & 0 \\ ac-b & c & 1 \end{pmatrix} = M$$

$$m = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix} = In$$

Listy 3. Erickson moller

3-1 a)
$$\det(\frac{1}{2}\frac{2}{2}) = 2 - 4z - 2$$
, Logo A = invasive $\det(A) \neq 0$

$$A^{-1}z(\frac{1}{2}\frac{1}{2}) = \frac{1}{2}$$

$$(\frac{1}{2}\frac{2}{2}\frac{1}{0}\frac{1}{1}) + \frac{1}{2}$$

$$(\frac{1}{2}\frac{2}{2}\frac{1}{0}\frac{1}{1}) + \frac{1}{2}$$

$$(\frac{1}{2}\frac{2}{2}\frac{1}{0}\frac{1}{1}) + \frac{1}{2}$$

b)
$$det(1 0 1) = 1 + 0 + 2 - 0 - 0 = 3$$

 $det(1 1 0) = det(B) \neq 0, logo = B^{-1}$
 $(0 0 1 0 0) = det(B) \neq 0, logo = B^{-1}$
 $(0 0 1 1 0 0) = det(B) \neq 0, logo = B^{-1}$
 $(0 0 1 1 0 0) = det(B) \neq 0, logo = B^{-1}$
 $(0 0 1 1 0 0) = det(B) \neq 0, logo = B^{-1}$
 $(0 0 1 1 0 0) = det(B) \neq 0, logo = B^{-1}$

$$\begin{pmatrix}
1 & 0 & 0 & \frac{1}{3} & \frac{2}{3} & \frac{1}{3} \\
0 & 1 & 0 & \frac{1}{3} & \frac{1}{3} & \frac{1}{3} \\
0 & 0 & 1 & \frac{1}{3} & \frac{1}{3} & \frac{1}{3}
\end{pmatrix}$$

$$B^{-1} = \frac{1}{3} \cdot \begin{pmatrix} 1 & 2 & -1 \\ -1 & 1 & 1 \\ 2 & -2 & 1 \end{pmatrix}$$

3-) c)
$$\begin{pmatrix} 0 & 0 & 1 & 1 \\ 1 & 0 & 0 & 1 \\ 1 & 1 & 1 & -1 \\ 0 & 2 & 0 & 3 \end{pmatrix}$$
 And Laplace

$$a_{11} = 0 \cdot (-1)^{2} \cdot \begin{pmatrix} 0 & 0 & 1 \\ 1 & 1 & -1 \\ 2 & 0 & 3 \end{pmatrix}$$
 $a_{21} = 1 \cdot (-1)^{4} \cdot \begin{pmatrix} 0 & 1 & 1 \\ 2 & 0 & 3 \\ 2 & 0 & 3 \end{pmatrix}$
 $a_{21} = (-1)^{4} \cdot \begin{pmatrix} 0 & 1 & 1 \\ 0 & 0 & 1 \\ 2 & 0 & 3 \end{pmatrix}$
 $a_{21} = (-1)^{4} \cdot \begin{pmatrix} 0 & 1 & 1 \\ 0 & 0 & 1 \\ 2 & 0 & 3 \end{pmatrix}$
 $a_{21} = (-1)^{4} \cdot \begin{pmatrix} 0 & 1 & 1 \\ 0 & 0 & 1 \\ 2 & 0 & 3 \end{pmatrix}$
 $a_{21} = (-1)^{4} \cdot \begin{pmatrix} 0 & 1 & 1 \\ 0 & 0 & 1 \\ 2 & 0 & 3 \end{pmatrix}$
 $a_{21} = (-1)^{4} \cdot \begin{pmatrix} 0 & 1 & 1 \\ 0 & 0 & 1 \\ 2 & 0 & 3 \end{pmatrix}$

Desenvolvi o cálculo dessa matriz inversa na última página desta lista.

Lista 3. Erickson miller

Lista 3. Erdson Miles

Unda
$$\begin{cases} x-y-4 & 0 \\ x+y=0 \end{cases}$$
 by $\begin{cases} x-y+2-2 & 0 \\ x-y+2-2 & 0 \end{cases}$ $\begin{cases} x-y+2-2+6=0 \\ x+y+2-2+6=1 \end{cases}$

$$\begin{cases} x-y+2-2+6=1 \\ -x+y+2-1=0 \end{cases}$$

$$\begin{cases} x-y+2-1=0 \\ x-y+2-1=0 \end{cases}$$

$$\begin{cases} x-y+2-1=0 \\ x-y+2-$$

Collegoo-11/3-1-4

I multiplica o deferminante por 2 e en sogvida divide por

Usta 3. Eindleson miller

Para caladar essas determinantos.

lista 3. Erickson miller

5-)
$$A = \begin{pmatrix} 1 & -1 & 1 \\ 1 & 0 & 2 \end{pmatrix}$$
 $det(A) = 0 + 2 - 2 - 0 - 4 + m$ $A = \begin{pmatrix} 2 \\ 1 \\ 0 \end{pmatrix}$ $det(A) = m - 4 + 0$ $M = \begin{pmatrix} 2 \\ 1 \\ 0 \end{pmatrix}$

$$\frac{\det(M_X)}{\det(A)} = \frac{2 - 1 \cdot 1}{0 \cdot 2 \cdot m} = \frac{0 + 0 + 2 - 0 - 3 + m}{m - 4} = \frac{m - 6}{m - 4}$$

$$\frac{\det(M_X)}{\det(A)} = \frac{m - 6}{m - 4}$$

$$y = \frac{1}{10m} = \frac{21}{m-4} = \frac{m+4+0-1-0-2m}{m-4} \quad y = \frac{-m+3}{m-4}$$

$$Z = \frac{1 - 1 \cdot 2}{1 \cdot 2 \cdot 0} = \frac{0 - 1 + 4 - 0 - 2 - 0}{m - 4} = \frac{1}{m - 4} = \frac{2}{m - 4} = \frac{1}{m - 4}$$

Lists 3. Eickson G. Miller

7-) $A.(B^{-1}X) = C^{-1}.A$

A-1, A. (B-1, X) = A-1, C-1

I.(B'X) = A'.C.A

B.(B',x) = (B.B'), X=B.A'.C',A

I.X = B. A. C. A

CP 60

X = B.A-1, C-1, A

Lista 3. Evickson Miller

9-)
$$V_{1} = (1,0,0)$$
 $V_{1}.V_{3} = 1.x + 0.y + 0.z = 0$
 $V_{2} = (0,1\frac{1}{12},1\frac{1}{12})$ $x = 0$
 $V_{3} = (x,y,z)$ $V_{2}.V_{3} = 0.x + \frac{y}{\sqrt{2}} + \frac{z}{\sqrt{2}} = 0$

$$0^{2} + y^{2} + (-y)^{2} = 1$$

$$y^{2} + y^{2} = 1$$

$$y^{2} + y^{2} = 1$$

$$y^{2} + y^{2} = 1$$

$$5_{2} = \{(0, -\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}})\}$$

$$C^{-1} = \frac{1}{9} \cdot \begin{pmatrix} -2 & 7 & 2 & -1 \\ -3 & -3 & 3 & 3 \\ 7 & -2 & 2 & -1 \\ 2 & 2 & -2 & 1 \end{pmatrix}$$