$3X = 9 /.3^{-1}$

$$\frac{2\pi \cdot 2}{x} + 25 + 32 = 4$$

$$4x - 25 - 25 = 1$$

$$4 \times -25 - 2 = 1$$
 $4 - 2 = 2$

$$\begin{cases}
1 & 2 & 3 \\
4 & -3 & -1 \\
0 & 1 & -1
\end{cases}
\begin{pmatrix}
x \\
2
\end{pmatrix}
=
\begin{pmatrix}
4 \\
1 \\
2
\end{pmatrix}$$

 $(A^{-1}A = I)$ $A \times = b / A^$ x. A = b $\times .A^{T} | A^{T} \rangle = J_{F} | A^{T} \rangle^{-1}$ $\times .T = J_{F} . (A^{T})^{-1}$ $T \leftarrow \begin{bmatrix} A & A \times = A^{-1}b \\ \hline T \times = A^{-1}b \\ \hline \left[\times = A^{-1}b \right] \end{bmatrix}$ $I = \begin{pmatrix} 100 \\ 010 \\ 001 \end{pmatrix}$ 1 x = b.(AT)-1/ pouse pero choercové mahi ce Def. $A = \frac{1}{\det(A)} \cdot \operatorname{adj} A$ del (A) = 0 7 maliee near inversm nahire (singulaisi)

A + B

A =
$$\begin{pmatrix} 11 \\ 11 \end{pmatrix}$$

B = $\begin{pmatrix} 010 \\ 012 \end{pmatrix}$

A - B

Slejza velikosh

$$C = \begin{pmatrix} 010 \\ 012 \end{pmatrix}$$

$$2 \times 3$$

$$2 \times 3$$

$$C = \begin{pmatrix} 010 \\ 012 \end{pmatrix}$$

$$2 \times 3$$

$$2 \times 3$$

$$C = \begin{pmatrix} 010 \\ 012 \end{pmatrix}$$

$$2 \times 3$$

$$3 \times 3$$

$$3$$

Shalar =
$$\overline{c}$$
islo
$$1 - |44|$$

másobení mahi e

$$3 \times 2$$
 3×3
 4×3
 5×2
 5×2

$$F = \begin{pmatrix} 7 & 2 \\ 0 & 3 \end{pmatrix}$$

$$F = \begin{pmatrix} 4 & 5 \\ 6 & -1 \end{pmatrix}$$

$$F = \begin{pmatrix} 4 & 5 \\ 6 & -1 \end{pmatrix}$$

$$E. F = \begin{pmatrix} 4 & 2 \\ 0 & 3 \end{pmatrix} \cdot \begin{pmatrix} 4 & 5 \\ 4 & -1 \end{pmatrix} = \begin{pmatrix} 1.4 + 2.6 & 1.5 + 2.(-1) \\ 0.4 + 3.6 & 0.5 + 3.(-1) \end{pmatrix}$$

$$= \begin{pmatrix} 16 & 3 \\ 18 & -3 \end{pmatrix}$$

$$E = \begin{pmatrix} 12 \\ 03 \end{pmatrix} \qquad E = \begin{pmatrix} 12 \\ 6 \end{pmatrix} \qquad 12 \qquad 16 \qquad 3$$

$$F = \begin{pmatrix} 45 \\ 6-1 \end{pmatrix} \qquad 03 \qquad 18 \qquad -3$$

$$E = \begin{pmatrix} 7 \\ 6 \end{pmatrix} \qquad 18 \qquad -3$$

$$E = \begin{pmatrix} 12 \\ 6 \end{pmatrix} \qquad 18 \qquad -3$$

$$E = \begin{pmatrix} 12 \\ 6 \end{pmatrix} \qquad 18 \qquad -3$$

$$E = \begin{pmatrix} 12 \\ 6 \end{pmatrix} \qquad 18 \qquad -3$$

$$E.F = \begin{pmatrix} 16 & 3 \\ 18 & -3 \end{pmatrix} \qquad F.E = \begin{pmatrix} 4 & 23 \\ 6 & 9 \end{pmatrix}$$

Definite
$$A = \begin{pmatrix} a & b \\ c & d \end{pmatrix}$$

$$deh(A) = a.d - b - c$$

$$adj(A) = \begin{pmatrix} d - b \\ -ca \end{pmatrix}$$

$$adj(A) = \begin{pmatrix} d - b \\ -c a \end{pmatrix}$$

$$A^{-1} = \frac{1}{del(A)} \cdot adj(A)$$

$$A^{-1} = \frac{1}{ad-b\cdot c} \cdot \begin{pmatrix} d - b \\ -c a \end{pmatrix}$$

$$\frac{1}{1}x + 3y = 4$$

$$\frac{1}{2}x + 3y = 5$$

$$\frac{1}x + 3y = 5$$

$$\frac{1}{2}x + 3y = 5$$

$$\frac$$

$$dj(t^{T}) = (-31)$$

$$t^{-1} = \frac{1}{dol(t^{T})} \cdot adj(t^{T})$$

$$A^{-1} = \frac{1}{\det(A^T)} \cdot \operatorname{adj}(A^T)$$

$$A^{-1} = \frac{1}{del(A^{T})} \cdot adj(A^{T}) \qquad (x \ y) = (4 \ 5) \cdot (7 \ 7) \cdot (1 - 1)$$

$$A^{-1} = \frac{1}{-3} \cdot (3 \ -2) \cdot (-3 \ 1) \cdot (x \ y) = (-4+5) \cdot (7 \ 7) \cdot (1 - 1)$$

$$A^{-1} = (-1 \ 2/3) \cdot (-3 \ 1) \cdot (x \ y) = (1 \ 1)$$

$$(x \ y) = (1 \ 1)$$

 $A^{-1} = \begin{pmatrix} -1 & \ell/3 \\ 1 & -1/3 \end{pmatrix}$

$$4^{-1} = \frac{1}{\det(4^{T})} \cdot \operatorname{adj}(4^{T})$$

$$4^{-1} = \frac{1}{-2} \cdot \begin{pmatrix} 3 & -2 \\ -3 & 1 \end{pmatrix}$$

$$x = b.(\lambda^{T})^{-1}$$

$$(\times 3) = (45) \cdot (-12/3)$$

$$\frac{1}{12x + 3y = 4} \rightarrow (23) \cdot (3) = (4)$$
puisole
$$\frac{1}{2x + 3y = 5} \rightarrow (23) \cdot (3) = (4)$$

$$\frac{1}{2} = \frac{1}{3} = -3$$

$$del(t) = 1.3 - 2.3 = -3$$

$$adj(t) = \begin{pmatrix} 3 - 3 \\ -21 \end{pmatrix} \qquad x = A^{-1}, b$$

$$A = \begin{pmatrix} 1 \\ -1 \end{pmatrix}, adj(A) \qquad \begin{pmatrix} x \\ 4 \end{pmatrix} = \begin{pmatrix} -1 \\ 2/2 - 1/2 \end{pmatrix}, \begin{pmatrix} 4/5 \\ 5/5 \end{pmatrix}$$

$$del(t) = 1.3 - 2.3 = -3$$

$$adj(t) = \begin{pmatrix} 3 - 3 \\ -21 \end{pmatrix} \qquad X = A^{-1} \cdot b$$

$$A^{-1} = \frac{1}{del(t)} \cdot adj(A) \qquad \begin{pmatrix} X \\ 3 \end{pmatrix} = \begin{pmatrix} -1 & 1 \\ 2/3 & -1/3 \end{pmatrix} \cdot \begin{pmatrix} 4 \\ 5 \end{pmatrix}$$

$$A^{-1} = \frac{1}{-3} \cdot \begin{pmatrix} 3 - 3 \\ -2 & 1 \end{pmatrix} \qquad \begin{pmatrix} X \\ 3 \end{pmatrix} = \begin{pmatrix} -1.4 & +1.5 \\ 2/3 \cdot 4 - 1/3 \cdot 5 \end{pmatrix}$$

 $\begin{pmatrix} \times \\ 5 \end{pmatrix} = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$

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

X-9+2=2

$$x+y+z=1$$
 $x-s+a=2$

x+5 = 1-t

x-9-2-t

st, teR

 $A \begin{pmatrix} 12 \\ 3/4 \end{pmatrix} \longrightarrow A^{T} = \begin{pmatrix} 23 \\ 24 \end{pmatrix}$

$$(x_1 x_2 x_3) \cdot \begin{pmatrix} 1 & -2 & 3 \\ -1 & 3 & -1 \\ 2 & -5 & 5 \end{pmatrix} = \begin{pmatrix} 9 & -6 & 17 \end{pmatrix}$$

 $X.A=b_{r}(A)$

X = b.(4)-1

$$x + 3y = 4$$

 $2x + 3y = 5$

$$\begin{pmatrix} 1 & 3 \\ 2 & 3 \end{pmatrix} \cdot \begin{pmatrix} \times \\ 5 \end{pmatrix} = \begin{pmatrix} 4 \\ 5 \end{pmatrix}$$

x + 3y = 4 2x + 3y = 5

$$\begin{pmatrix}
1 & -2 & 3 \\
-1 & 3 & -1 \\
2 & -5 & 5
\end{pmatrix}
\cdot
\begin{pmatrix}
x_1 \\
x_2 \\
x_3
\end{pmatrix}
=
\begin{pmatrix}
9 \\
-6 \\
17
\end{pmatrix}$$

$$A \cdot x = b - 1 \cdot A^{-1}$$

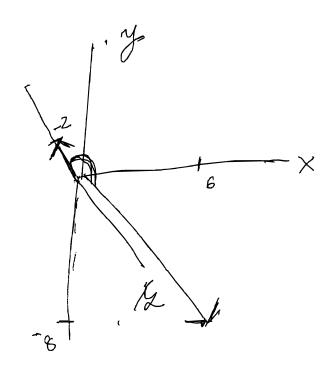
 $\times = A^{-1} L$

$$\vec{v} = B - A = (2 - 1; 5 - 1)$$

$$\vec{v} = (1, 4)$$

$$A[1;1]$$

$$1 = \sqrt{1^2 + 4^2} = \frac{1}{2}$$



$$\vec{a} = (2,4,2) + -, 2+4+2=8$$

$$\frac{1}{4} + \frac{1}{2} + \frac{1}{4} = \frac{1+2+1}{4} = 1$$

 $\int armos(cos(x))=x$

An =
$$\lambda v$$

$$\lambda = \begin{pmatrix} \lambda & 0 & 0 \\ 0 & \lambda & 0 \\ 0 & 0 & \lambda \end{pmatrix}$$

$$\lambda v - \lambda v = 0 \quad \lambda = \begin{pmatrix} 2 & 1 \\ 1 & 2 \end{pmatrix} \quad 4 - 4\lambda + \lambda^2 - 1 = 0$$

$$\lambda^2 - 4\lambda + 3 = 0$$

$$\lambda = \begin{pmatrix} 2 & 1 \\ 1 & 2 \end{pmatrix} - \begin{pmatrix} \lambda & 0 \\ 0 & \lambda \end{pmatrix} \quad (\lambda - 1) \cdot (\lambda - 3) = 0$$

$$\lambda = \begin{pmatrix} 2 & 1 \\ 1 & 2 - \lambda \end{pmatrix} = 0$$

$$\lambda = \begin{pmatrix} 2 - \lambda & 1 \\ 1 & 2 - \lambda \end{pmatrix} = 0$$

$$\lambda = \begin{pmatrix} 2 - \lambda & 1 \\ 1 & 2 - \lambda \end{pmatrix} = 0$$

$$\lambda = \begin{pmatrix} 2 - \lambda & 1 \\ 1 & 2 - \lambda \end{pmatrix} = 0$$

$$\lambda = \begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix} \cdot \begin{pmatrix} v_1 \\ v_2 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$\lambda = 3 \quad \begin{pmatrix} -1 & 1 \\ 1 & 1 \end{pmatrix} \cdot \begin{pmatrix} v_1 \\ v_2 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$\lambda = 3 \quad \begin{pmatrix} -1 & 1 \\ 1 & -1 \end{pmatrix} \cdot \begin{pmatrix} v_1 \\ v_2 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$\lambda = 3 \quad \begin{pmatrix} -1 & 1 \\ 1 & -1 \end{pmatrix} \cdot \begin{pmatrix} v_1 \\ v_2 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$\lambda = 3 \quad \begin{pmatrix} -1 & 1 \\ 1 & -1 \end{pmatrix} \cdot \begin{pmatrix} v_1 \\ v_2 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$\lambda = 3 \quad \begin{pmatrix} -1 & 1 \\ 1 & -1 \end{pmatrix} \cdot \begin{pmatrix} v_1 \\ v_2 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$\lambda = 3 \quad \begin{pmatrix} -1 & 1 \\ 1 & -1 \end{pmatrix} \cdot \begin{pmatrix} v_1 \\ v_2 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$\lambda = 3 \quad \begin{pmatrix} -1 & 1 \\ 1 & -1 \end{pmatrix} \cdot \begin{pmatrix} v_1 \\ v_2 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$\lambda = 3 \quad \begin{pmatrix} -1 & 1 \\ 1 & -1 \end{pmatrix} \cdot \begin{pmatrix} v_1 \\ v_2 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$\lambda = 3 \quad \begin{pmatrix} -1 & 1 \\ 1 & -1 \end{pmatrix} \cdot \begin{pmatrix} v_1 \\ v_2 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$\lambda = 3 \quad \begin{pmatrix} -1 & 1 \\ 1 & -1 \end{pmatrix} \cdot \begin{pmatrix} v_1 \\ v_2 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$\lambda = 3 \quad \begin{pmatrix} -1 & 1 \\ 1 & -1 \end{pmatrix} \cdot \begin{pmatrix} v_1 \\ v_2 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$\lambda = 3 \quad \begin{pmatrix} -1 & 1 \\ 1 & -1 \end{pmatrix} \cdot \begin{pmatrix} v_1 \\ v_2 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$\lambda = 3 \quad \begin{pmatrix} -1 & 1 \\ 1 & -1 \end{pmatrix} \cdot \begin{pmatrix} v_1 \\ v_2 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$\lambda = 3 \quad \begin{pmatrix} -1 & 1 \\ 1 & -1 \end{pmatrix} \cdot \begin{pmatrix} v_1 \\ v_2 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$\lambda = 3 \quad \begin{pmatrix} -1 & 1 \\ 1 & -1 \end{pmatrix} \cdot \begin{pmatrix} v_1 \\ v_2 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$\lambda = 3 \quad \begin{pmatrix} -1 & 1 \\ 1 & -1 \end{pmatrix} \cdot \begin{pmatrix} v_1 \\ v_2 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$\lambda = 3 \quad \begin{pmatrix} -1 & 1 \\ 1 & -1 \end{pmatrix} \cdot \begin{pmatrix} v_1 \\ v_2 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$\lambda = 3 \quad \begin{pmatrix} -1 & 1 \\ 1 & -1 \end{pmatrix} \cdot \begin{pmatrix} v_1 \\ v_2 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$\lambda = 3 \quad \begin{pmatrix} -1 & 1 \\ 1 & -1 \end{pmatrix} \cdot \begin{pmatrix} v_1 \\ v_2 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

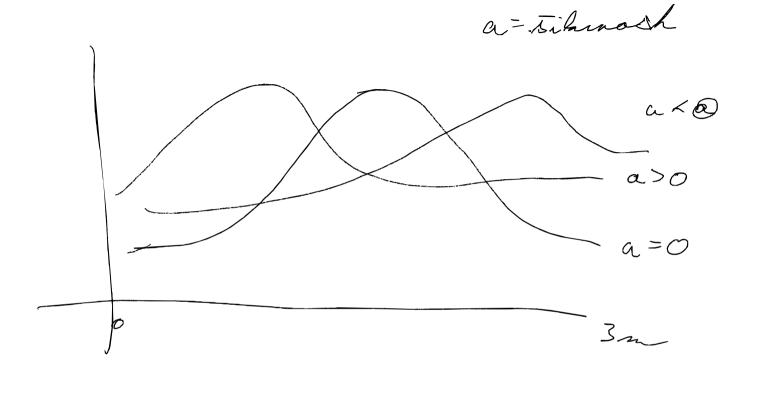
$$\lambda = 3 \quad \begin{pmatrix} -1 & 1 \\ 1 & -1 \end{pmatrix} \cdot \begin{pmatrix} -1 & 1 \\ 0 & -1 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

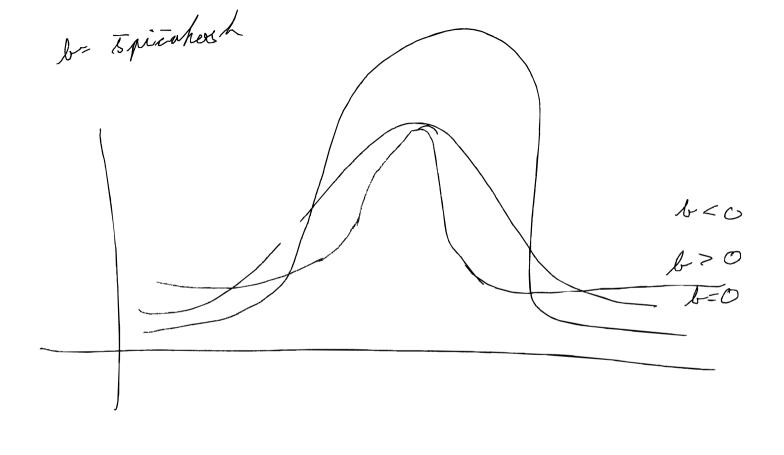
$$\lambda = 3 \quad \begin{pmatrix} -1 & 1 \\ 1 & -1 \end{pmatrix} \cdot \begin{pmatrix} -1 & 1 \\ 0 & -1 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix}$$

$$\lambda = 3 \quad \begin{pmatrix} -1 & 1 \\ 0 & -1 \end{pmatrix} \cdot \begin{pmatrix} -1 & 1 \\ 0 & -1 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix}$$

$$\lambda = 3 \quad \begin{pmatrix} -1 & 1 \\ 0 & -1 \end{pmatrix} \cdot \begin{pmatrix} -1 & 1 \\ 0 & -1 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix}$$

$$\lambda = 3 \quad \begin{pmatrix} -1 & 1 \\ 0 & -1 \end{pmatrix} \cdot \begin{pmatrix} -1 & 1 \\ 0 & -1 \end{pmatrix} = \begin{pmatrix} -1 & 1 \\ 0 & -1 \end{pmatrix} = \begin{pmatrix} -1 & 1 \\ 0 & -1 \end{pmatrix} = \begin{pmatrix} -1 & 1 \\ 0 & -1 \end{pmatrix} = \begin{pmatrix} -1 & 1 \\ 0 & -1 \end{pmatrix} = \begin{pmatrix} -1 & 1 \\ 0 & -1 \end{pmatrix} = \begin{pmatrix} -1 & 1 \\ 0 & -1 \end{pmatrix} = \begin{pmatrix} -1 & 1 \\ 0 & -1 \end{pmatrix} = \begin{pmatrix} -1 &$$





2 hosky

£ 1;4)

S2;37

= 1 = 11/23,23

$$57 = 51, 2, 3, 4, 5, 63 = 9$$
 $50 = 50$
 $50 = 50$
 $50 = 50$
 $50 = 7$
 $50 = 7$

$$57 = 51, 2, 3, 4, 5, 63 = 100\%$$

 $P(\bar{A}) = 1 - P(A)$

1-1=5

1 rah Bez hah 0,01.0,084 20% 90,460 Neg 80%0 P(B)=0,99.0,096 les Poz 9,6%0 +0,01.0,8 Poz+Rak 0,99.0,096 rejsledet hes hu porihoni a ga neman 0,39.0,036 0,89.0,096+0,01.0,6