Memphart

$$6+4+7+10+6,5=33.5$$

I a, rech f:V -> U je lireaine solraseme. Mnorina Kuft) = {xeV: f(x) = 0} na nota' jedno t. musina In(1) = { q e li + (x) - q pu nejole x e V j sa vola olvas t. Nech tiv -> U je liseaine eoliveene koneinovamernjek rellororjek puishow. Blom dim (V) = dim (Ru (+)) + dim (2 (+)) 16 $\begin{pmatrix} 1 & 1 & 1 & 0 \\ 1 & -1 & 0 & 0 \\ -1 & 1 & 0 & 0 \end{pmatrix} \sim \begin{pmatrix} 1 & -1 & 1 & 0 \\ 1 & -1 & 0 & 0 \end{pmatrix} \sim \begin{pmatrix} 1 & 0 & 1 & 0 \\ 1 & -1 & 0 & 0 \end{pmatrix} \sim \begin{pmatrix} 1 & 0 & 1 & 0 \\ 0 & -2 & 0 & 0 \end{pmatrix}$ Ru(0) = {x = R3: B(x) = 0} - (5) = (1) = (2) = (lin (kin (B)) + 1 $\begin{vmatrix}
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0 &$ 736 $2m(8) = \{ f(x) = x \in \mathbb{R}^d \} = \{ (a_1 a_1 - 1) : a_1 l \in \mathbb{R}^d \} \quad din(2m(8)) = 2$ * ordonormaline bain lin(0) = $\left|\frac{x}{r_{G}}\right| = \left|\frac{(\eta, \eta, -2)}{r_{G}}\right| \int 2b$ x=(1,1,2) o or buormalne sain $Im(B) = \left(\begin{array}{c} (1,1,-1) \\ (1,0,0) \end{array}\right)$ X-((1,0,0), (91,-1))

7 6

 $C = \begin{pmatrix} 0 & x - \lambda & 0 \\ 1 & \lambda & 1 - \lambda \end{pmatrix} = 2 \operatorname{del}(0) = \begin{pmatrix} 1 - \lambda \end{pmatrix} (x - \lambda) \begin{pmatrix} 1 - \lambda \end{pmatrix} = \begin{pmatrix} x - \lambda \end{pmatrix} = \begin{pmatrix} x - \lambda \end{pmatrix} = \begin{pmatrix} x - \lambda \end{pmatrix} = \begin{pmatrix} x - \lambda \end{pmatrix} \begin{pmatrix} x$ $(\alpha-\lambda)((1-\lambda)^2-1)=(\alpha-\lambda)(-\lambda)(2-\lambda)$ $\lambda_i = 0$ $\lambda_i = \infty$ $\lambda_i = 2$ $\begin{pmatrix} 1 & 2 & 1 & 0 \\ 0 & 2 & 0 & 0 \\ 1 & 2 & 1 & 0 \end{pmatrix} \sim \begin{pmatrix} 1 & 2 & 1 & 0 \\ 0 & 2 & 0 & 0 \end{pmatrix}$ where α is also and α in the second supportance of α in the second su $\begin{pmatrix} 1-\alpha & 2 & 1 & | & 0 \\ 0 & 0 & 0 & | & 0 \\ 1 & 2 & 1 & | & 0 \end{pmatrix} \qquad \text{if } \lambda = 1, \text{ necleotamente}$ $\begin{pmatrix} 1 & 2 & 1 & | & 0 \\ 1 & 2 & 1 & | & 0 \end{pmatrix} \qquad \text{if } \lambda = 1, \text{ necleotamente}$ $\begin{pmatrix} 1 & 2 & 1 & | & 0 \\ 1 & 2 & 1 & | & 0 \end{pmatrix} \qquad \text{in } \lambda = 1, \text{ necleotamente}$ 1 2 -1 0) N -1 2 1 10 at x = 2, dostanine unly white 1 2 -1 0) N -2 0 0 N -2 0 0 N Son XER 1992] R1223

Meargumentigle dost dosledne 3) T=2T え. スズ = 27 大 < x,y>s = < Sx, Sy> symetria: < x, y > = (5x, 5y) = (5y, 5x) = (y,x)s symetria porodného skalárnek nicim line anta: (ax,y) = (S(ax), Sy) = (a Sx, Sy) = a (\$x, Sy) = a(x,y) linearth robinerios (x+y, 2) = (S(x+y), S2) = (Sx+5y, S2) = (Sx, S2) + (Sy FS2) = (x, 2) + (y, 2)s nerapornost (x,x) =0, len sledy, bel x je melog seklor mesagnomost porodného (sx, sx) = 0 <=> sx = 0 <=> x = 0 (10)

SARA NENTHAET
5, 5, 0 je ctividne, lelo enora sanikne poslupnost od i po neko-
neinej a definicia horori, se hunsformacio notraci do selo.
matica zobrazinia $L(cA+dB)=L\begin{pmatrix} ca, \\ ca, \\ dL \end{pmatrix}=\begin{pmatrix} ca, \\ $
$\sqrt{\frac{1}{2}}$ \frac
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The state of the second
Life = L. (an, 6n+1, larcong) = (an+1, lan+6n+1, lan+3an)) ked odstrainine proj proch, ne opljeni ostybe proby => late 4 al ti e 4 A preb 4 je invariantný ved vehloslan na L. G, Mech A: V = V je linearna hansformácia. 2 Al $A\vec{x} = \lambda \vec{x}$, $\vec{x} \neq \vec{0}$, polom λ je slatkná hodnáh A a \vec{x} je l nej prislúckapili slatky sellov.

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