

		1.7
	ימרא ווקאולי איני	-
	< V, F,+, *>	++
		-
2000	פנוב ונקטור' מלם F השב (V+D) F השבור נוקטורים, יכבל	N
1.	$\forall \bar{x}, \bar{y} \in V \bar{x} + \bar{y} = \bar{y} + \bar{x}$	
	V =	-
2.	$\forall \overline{x}, \overline{y} \in \overline{V} \overline{x} + (\overline{y} + \overline{z}) = (x + y) + \overline{z}$ $\exists \overline{O} \in \overline{V} : \forall \overline{x} \in V \overline{x} + \overline{O} = \overline{O} + \overline{x} = \overline{x}$	1-
3	10eV. +xeV x+0=0+x=x	- 3
4.	$\forall \bar{x} \in V \exists -\bar{x} \in \bar{V} : \bar{x} + (-\bar{x}) = \bar{O}$	1.35
	1/2 - 1 6/2 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	++
5,	Q(BT) = (QB)X	
6		
4.	$(d+\beta)x-dx+\beta x$	
		1
8.	$\lambda(\bar{x}+\bar{y}) = d\bar{x} + d\bar{y}$	1
PIKNEIS	$V = \begin{cases} \begin{cases} x \\ y \\ \in \mathbb{R}^3 \end{cases} x = -f \begin{cases} (-f, 0, 0) \\ (-f, 2f, 3) \end{cases} $	
	6 81	
	101	12
	0 = (0) p" pN & 0 EV 12 '11 (7) M M & So	-
	10) X=11'(E)	1
	(DD) : Sev 0	EV
	a) 17 /X epi 4-xi	1
	2) $\sqrt{-\left\{\begin{pmatrix} x \\ y \end{pmatrix} \in \mathbb{R}^2: y = x^2 \right\}}$ $\begin{pmatrix} x \\ y \end{pmatrix}$	1
-	a=(2) + V 21/211 and es	1
	$\overline{a} = \begin{pmatrix} a \\ y \end{pmatrix} - \overline{a} = \begin{pmatrix} -a \\ y \end{pmatrix} \notin V$: '2) (pu and so	2 1
	-4 ≠ (=)**	1
1,	$U = \begin{cases} \begin{pmatrix} t & s \\ t-s & o \end{pmatrix} \mid t, s \in \mathbb{R} \end{cases}$ '2 Cpu and $U \in S'3$	10
	U\t-S 0/1	-
	+ 8 1 10 0 1 2013	
	t S (0 0) 20x2 t S 0 7 (0 0) t,S 7 0	
		T
715co	$\begin{pmatrix} t_1 & s_2 \\ t_1 - s_2 & O \end{pmatrix} + \begin{pmatrix} t_2 & s_3 \\ t_2 - s_2 & O \end{pmatrix} = \begin{pmatrix} t_1 + t_2 & s_2 + s_3 \\ (t_1 + t_2) - (s_1 + s_2) & O \end{pmatrix} \in \overline{U}$	
למיבור	(t,-s, 0) (t,-s, 0) (A+t)-(s+s) 0)	-
1		++-
31900	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1
20,000 0000	(C-3 0 / (a(L-2) 0 / (a) as 0	
	224 6 77	
	IR Se anow-JJ U	
		1

-37	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2.	V= [f:1R-1R 20132] (:2/36)
71715-	= 3139110 W. If EV Yaek. f(-a) - f(a)
)	V Se Ny nun W'2 S.3
	E) Ov ∈ W Ov = f. (X) = O +x ∈ R f. (-x) = O = -f. (x)
7120	f(x) = f(x) = f(x) = f(x) = f(x) $f(x) = f(x) = f(x) = f(x) = f(x)$
פתיבוני	(f+g)(-x) - f(-x) + g(-x) = -f(x) - g(x) = -(f+g)(x)
	(7-9)(-2)
र्भाष्ट्र हैं रहेन के कि	* * * * * * * * * * * * * * * * * * *
	A 1
3.	AX = B 15000 of 1115 of 1500 of 1115 o
	Ax=b 320W Se 111250 29120 11 2020 11 2020 11 2020 11 2020 11 2020 120 1
	100/x\11 1 1 1 1 1 1 2 2 2 2 1 C 1 3
	1100 x 11 173¢; 20¢13
	222/N Se 1250 (x,y,2) = (1,1,1)
	(800(1) 1. 1. 1. 1. 2(1,1,1) = (d,d,d) Sat 010 1, 1 4 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	001/2/2/2/1
	25702 5000 10/60/4
	57 (1/4) -103 1
4.	V-/(1/2) & R3 (x,y,z>0)
	: ginto 2'361
(7) \$\forall (x, 4, 2) \(\times \) \((x, 4, 2) \oplus (x, 4, 2) \(\times (x, 4, 2) \)
0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	1 V (N/9, E) V (X/1,19,2) - (X/1,19,2)
	? 1'W V DE7
	$O_v = (x, y, z) \oplus O_v = (x, y, z)$ $O_v = (t, y, t)$
	$\forall \vec{u}, \vec{v} \in \vec{V}$ $\vec{u} \oplus \vec{v} = (x, x_1, q, q_1, z, \bar{z}_2) = (x, x_1, q, q_1, z, \bar{z}_1) = \vec{V} \oplus \vec{u}$
	TOWNS V CONCORD (V. V. 22) OC
	$\forall \overline{u_1 v}, \overline{w} \in \overline{V}$ $(\overline{u} \oplus v) \oplus \overline{w} = (x_1 x_2, 4_1 q_2, z_1 z_2) \oplus (x_2, q_3, z_4) =$
	= ((x,x)(x, y, y, y, y, z, z, z, z) = U (V \(\pi\))
	¥ ū ∈ V 3 - u = (1 1 1 1 2) ∈ V ū + (-ū) = 0 = (1,1,1)
+ūe	4x618 x 2 = (x, y, z) = V
	TO STATE OF
	Y U, V EV YOER ZO (U. DV) = (6x), (99) (82) =
	$(x_1, x_2, y_3, z_1, z_2, z_3) = (200) \oplus (200)$
	III a la l

7 7 1/ 11 2 12	(1.)	(d+B d+B d+B /d B d B d B	-4-
TUEV TXBEK	(x+3)00=	(x4+); y+p, 24+) = (xxt, yyt, 22t):	× 1
VUEV 31ER	= (LOU) (D)	(BOU)	2.8 5.7
W = - 17 7 / CIP	100 - (1 11	(21) = (x (12) = U	
VUE V J1EK	(1)	, 2) (2, 2)	
0/8/1/15	o long	Se 2020-J. Q(VE) DEP (E	
5. (J(V3) - 1 a+DV3	: U, DE GJ	N376 4 1 3 9 9 9 4 1 6	1337
2 1R	23e S8N 1R	Se answ-TT Q(US) DEP (E	1000
1000	22 SV/		
	1000	A A	Y S
E) 0 = 0+003 ((V/V3)			ded cool-
WELL OF	0.47-0.41	15 10 15 6 10 1 (h 1) IE EV	7/51
0,000 0,000	Car and San	5 10, 10, 13 = (0, TU,) T (0, 10, 1) S C G	[03]
(*) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ER Luc	$b_{13} + q_{1} + b_{1} \overline{3} = (q_{1} + q_{1}) + (b_{1} + b_{1}) \overline{15} \in Q$ $= Q(13) 2$ $= 2a + 2b \overline{13}$	
24.	2(0+43)=	20+2613	+
Kg 1 12 96	ig oko a	2-12 2	
La +261	B € Q(V3)		
1 (1) 14 = - 0000			
2) (*) V U E (J US) T	INER 30	10 = (10)+(16)(3 & Q(15) => sum-	5
	1 2 2 2		
		1 1 2 2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	
		3 3 3 3 8 1 8 8 1 8 1 8 1 8 1 8 1 8 1 8	
		1 1 1 2 2 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4
	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1588 0 0 0 0 1	
	(373)	((() () () () ()	
	13 V 215		
) = 3	15 9 2 3 5 5 6 4 4 5 5 5 5 5	
22,01 (3,87)	19 XxX - (3)	(12) (12) (13) (14) (14)	
		A - 27 - 27 - 28 - 28 - 28 - 28 - 28 - 28	
	100 10 10 10 10 10 10 10 10 10 10 10 10	(44) x (4) x (4) x	
		THE STREET TAKES	574
- ((SB) (1	60) (2h) (TOUR TOUR	
	MAN I I I MAN	V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	