WAD MTC. 213 1.

Pemerne:

Reprengue ga ephore bentopur bentopur charephoe repouzbegerme
koropur paloho Hyrro.

P - 2 = 0

 $= (da + 17b) \cdot (3a - b) = 0$ $d \cdot a \cdot 3a - d \cdot a \cdot b + 17b \cdot 3a - 17b \cdot b = 0$

 $a^2 = |a|^2$, $ab = |a| \cdot |b| \cdot \cos L$

 $= \lambda \cdot 3 \cdot 2^{2} - \lambda \cdot (2 \cdot 5 \cdot \cos \frac{2\pi}{3}) + 51 \cdot (2 \cdot 5 \cdot \cos \frac{2\pi}{3}) - 17 \cdot 5 = 0$ $12\lambda - \lambda \cdot (-\frac{1}{2} \cdot 10) + 51 \cdot (-\frac{1}{2} \cdot 10) - 425 = 0$ $12\lambda + 5\lambda - 255 - 425 = 0$

2 + 52 - 255 - 425 192 = 680 2 = 40

Orber: npu d=40

Heodxoguero npobeputs axcuoser numer nono пространства. D'Kommentatalphoeth: $\begin{array}{c} X + y = \begin{pmatrix} X_1 \cdot y_1 \\ X_2 \cdot y_2 \end{pmatrix} = \begin{pmatrix} Y_1 \cdot X_1 \\ Y_2 \cdot X_2 \end{pmatrix} = \begin{pmatrix} X_1 \cdot y_1 \\ Y_1 \cdot X_1 \end{pmatrix}$ 2) Accoynate la porte: 2) CHRONHeerce В) уще е нейтрапьного элешента относительно сполиние (cong-et equitorbetheur Frenchet O): d+0=a: Kak In. 0 boshere et: 0 = (1, 1, ..., 1) => X+0 = (X+1) (4) $x+y=\begin{pmatrix} x_1-x_1\\ x_2-x_2^{-1} \end{pmatrix}=\begin{pmatrix} 1,1,...,1=0 \end{pmatrix}=s$ gre nos. x^2 reportison. $x_1-x_2^{-1} \end{pmatrix}=(x_1,x_2,x_1^{-1})$ =newerorow Syger bear op $x^2=\begin{pmatrix} x_1^{-1},x_2^{-1},x_2^{-1} \end{pmatrix}$ (5) Duorp. oren. (yanus on: $d(x+y) = d \cdot \begin{pmatrix} x_1 & y_1 \\ x_2 & y_2 \\ x_n & y_n \end{pmatrix} = \begin{pmatrix} x_1 & y_1 \\ x_2 & y_2 \\ x_n & y_n \end{pmatrix} = \begin{pmatrix} x_1 & y_1 \\ x_2 & y_2 \\ x_n & y_n \end{pmatrix} = dy + dy$

$$4-\chi = \begin{pmatrix} \chi_1 \\ \chi_2 \\ \chi_n \end{pmatrix} = \chi$$

Dano: Heyenye: dx-354, Lucrema Cercropolo (d1, d2,..,dk) My-dz, Hazhlaerce nutreento zaloucumon, B2-7X
gol X, y, 2 ec nu cyclector takue craneph (xote Sh og. othloto) M, M2, , x EF, He be politice highlo u d, B, y 270 pada + 12d2 + ... + yxdx = Ov. => 2(dx - By) + B(qy - dZ) + y(BZ - yx) d'x-dby+Bry-22B+7B2-72x => X (2 - p2) + y (By-2B) + 2 (p3-2B) $\begin{array}{ll} \Rightarrow & & \\ &$ llogorabule; =) B(n-L) = 0 (201490 serce npu d=1), nuss B TyT byger pareno Hynk). =) equeciblem manue exame put , pou rompuer unetrale rousuraigne berropol dyger palona Hyoro, nouveur ne bre palemene Hyoro, 2.7. q.

6 Dans: p(1) + p(-1) = 0p(x) e Pa Permetice. $T.x. p(x) \in P_{H}, T0:$ $p(x) = a + bx + cx^{2} + dx^{3} + fx^{4}$ 1/pu p(1): p(1) = d+b+c+d+f Mpu p(-1): a-b+c-d+f => p(1)+(p-1) = a+b+c+d+f+(a-b+c-d+f) = 2a + 2c + 2f 2a+2c+2f=0=> a+c+f=0 Mu moment berparette ogen us rospophymetersto repes grynne. Dongorum, Corpany a = - c - f. $p(x) = (-c - f) + bx + cx^{2} + dx^{3} + fy^{4} = x^{2}$ $p(y) = bx + (x^{2} - 1)c + dx^{3} + (x^{4} - 1)f$ => $P_1(X) = X$, $P_2(X) = X^2 - 1$, $P_3(X) = X^3$, $P_4 = X - 1$ 25 P1, P2, P3, P4 Sopazuler sague repourpationed V. =>dim V = 4 Bazuc populpyerce us cobonynhous n numerono neorpaturba. => Sazuc paber {X, x²-1, x³, x⁴-1} Orber: dim V = 4; {x, x²-1, x³, x⁴-1}.