

Section 1.1 3st. fitable the : nx flat Additional Section Pef (Scalar) - 201, 50, 33, 25, 25 -vector > 到电子中间 智能 五月星 Pef 41日 (Vector) - 年5, 年201号,司 > 크기백만 아니라 나를들까지 지정하지 않으면 불관정하게 표시되는 이 > 出作到中間語文於 > 2,3对记录记 类性 到些起 五社学 A: X=AB Def Vector Sum / Scalar multiplication 以对文文中 经十大01 ching, X+YP 大·又是中部是一个对于 (1) 文书文主 X, You 의胡 智石作 或的性的 CHOX =3 医红生期 (k=00|00 || kall = 0) Def 32 yellor in space -4|2+3|4|2+3+4 |3|4|X=(21,2(2,2(3))Def Istable | vector in the plane - 与公司 石型 (comparent) 27 5性 HE X = (71, 72) Pet Ozatzza Clinear combination \* not reflet ) noted that vertion V1, V2, ... VKT ROU 4/6/01, THE C1, -CKT EFECH X = C1V1 + C2V2 + ... + CKVK of Helfe VI, Va, ... Vxo Saffet / I new (minimotion) of the

3.4  $\frac{1}{28}(n_0m_1-31,7121)=\frac{1}{288}+4|x|+1|x|=1|x|=$ (AM) A(0,1,-7,1), B(5,2,-1,3), C(-2,0,-4,6)of white  $B \in Aet \subset G$  of elder of ADIDE?

dist $(A,B) = \sqrt{(0-5)^2+(1-2)^2+(-7+0^2+(1-3)^2} = \sqrt{66}$ dist $(B,C) = \sqrt{(5+2)^2+(2-0)^2+(-1+4)^2+(3-6)^2} = \sqrt{71}$   $\therefore B \in Cdd Aol d 7/2b=1$ 

3.6 교사인 위사조의 개념 사인학 0 은 1억(의 LH업) (inner product) 드로부터 정의된다 -> 베이 따약은 여운, Q의 교사인 값으로 유사 측정 = 교사인 휴사조.

Dection 1.2 HAR 31 Additiona Section for  $X = (\chi_1, \chi_2, \dots, \chi_n)$  in  $\mathbb{R}^n$  $||x|| = \sqrt{\chi_1^2 + \chi_2^2 + \chi_n^2}$ Ly norm, length, magnitude det 4th (Euclidean Inner Product, dot product) Rn의 期日 ×=(2,, 22, ~2n), y=(y,, y2, ~yn)の(といるわる) 位午のリリナメンタンナ··· Xnyn 言のergol 4本のeral X·yz LEHylet \* ZA-GHZZ 455 (Cauchy-Schwarz inequality) R" 9019 45 X, you chook of 45001 delitet 1x.y1 = 1|x11 11y11 (단, 등호는 x, y를 하내나 다른 하나의 실수배일때만서임) det = WE xoel 25 一度は中世日 Standard unfrector R= yex, you and on X-Y= 11X11 11/11 cos A (05QETL) 0/0/0/ 4/6/X al Or x et yst offe to (angle, Afolist) old otet. olevitol, U= TXIIX \* 2004 2-81 · X·y = 0 2 al Xer y = A2 32 (or hogonal) etcl. र्निम्प्रीस) · Go Kal custod x = Kyel of X E yet stobblet. Rue dalate to पह मारा पार det एनमार उरमार केरिया भार unit vector, orthogonal vector, orthonormal vector e= (1,0,0,~0) e2=(0,1,0,···0) 伊士 如日 X の1 CM 1 2号 1 20 型日, 当 11 X 11 = 1 21 型日 = 巨計 型日 en= (0,010, n) R"의 바目 X, y才 型地片 对 的地片对 的地口 ) ) मिह्देनी माहती (21,92, 20) det whelm exet sitter Pny yel x1youchite 11x+y11 < 11x11+11y11 (で、行を y=kx, k≥0%で明度) = 76e, +20l2+ ... Unen

