

	2)	Fird wation.	ector of	form of	the l	line 1	ER' u	rith
	equ	eg. y	= 2x +3)				
	method 1:	e.g. y fino P=	l 2 po	vints of $Q = CI$	n equa	tiòn (d	irection.	vec-
				- [°]				
		2 let	one o	t the	point			
		X Ly.	= 6	2] +[3			
	الله							
	menroa 2	2: DUse i.e.	y=2x+3.	u co exp	ies other.			
		2 List	16 out X = 1 2x13	$\int_{2}^{2} = \chi \int_{2}^{1}$] + [3]			
			ge to = = t[2]					
	. 0.4	O O			1 / 4	2		
	2. <i>Vel</i> 13 4	ermine ! ₁ = t [a,]	The re $\left[+ \left[\frac{c}{c_1} \right] \right]$	clalional ; ls=t	up bel t[b]]→	ween. [c2]	Cines.	
		D Parall	el or ion	lentical 22 for	CHR -	,). λ εΙΟ		
if two vectors are orthograph		@ Ortho	goral					
then use the same method.		[6]	J. T. P.] = 0	(a) a	+ b1 b2	$= \sigma J.$	

5 1 to man + 当六日至大儿出版
② Intersect: 连立后看有股有解.
(consistent or inconsistent)
eg. Determine if the lines le & le, given in
vector form as:
vector form as: $\vec{x} = t \begin{bmatrix} 1 \\ 1 \end{bmatrix} + \begin{bmatrix} 1 \\ 1 \end{bmatrix} \text{and} \vec{x} = t \begin{bmatrix} 2 \\ 2 \end{bmatrix} + \begin{bmatrix} 4 \\ 3 \end{bmatrix}$
are the same line.
O Give different parametric variables
different names.
If \$86, \$= t[1] + [2]. where tEIR.
lt 766, 7=6[2]+[3]. where 861.
Set their equations equal and solve. $t [1,1+1,1] = 3 = s[2] + [3].$
t L; 1 + Lî 1 = 3 = s L2 1 + L\$ 1.
$\Leftrightarrow \begin{bmatrix} \overline{b} + 2 \\ \overline{b} + 1 \end{bmatrix} = \begin{bmatrix} 2S + 4 \\ 2S + 3 \end{bmatrix}.$
$\begin{cases} t + 2 = 2S + 4 \\ 0 = 2S - t + 2 \end{cases}$
t+1 = 2S+3.
This equation has a solution whenever $0=2S-t+2$ has a solution of $=1s$.
0=25-t-+2 has a solution. If = ls.
2) R ³ and higher. Sparallel (direction vector is a intersect. Skew (not parallel or intersect.
boug I not populled or interspet
e.g. $\vec{x} = t(1, 3, -2) + (1, 2, 1); \vec{x} = t(0, 2, 3)$
60,3,9).

