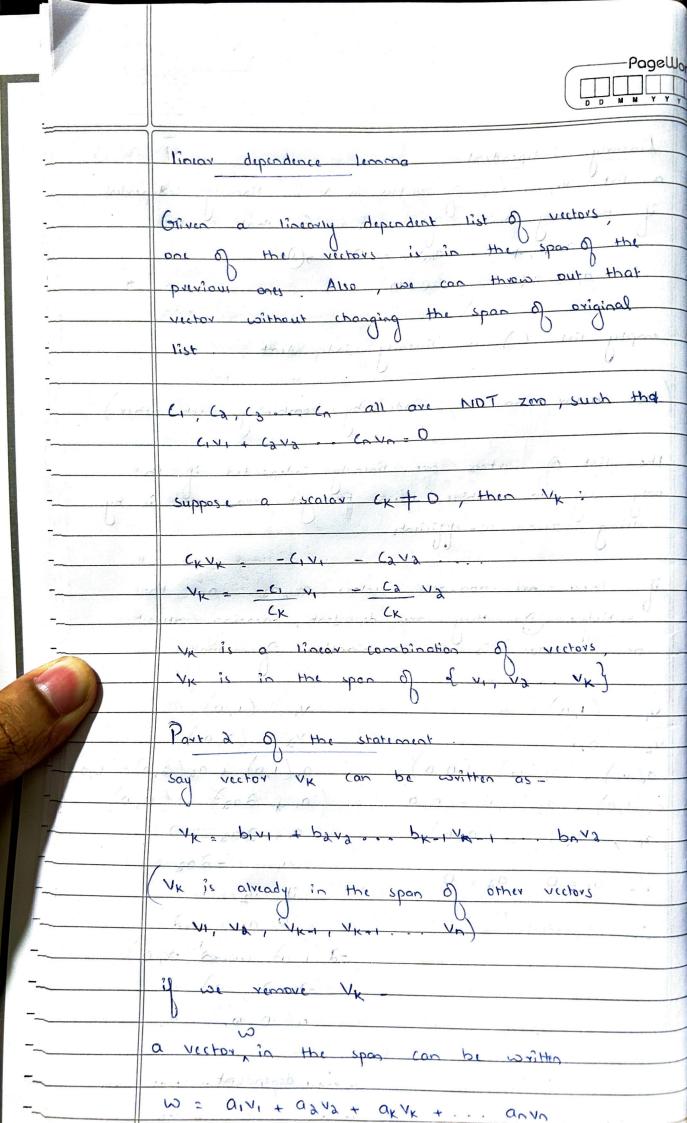
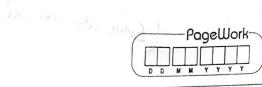


	Linearly independent
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	the list of vectors are linearly independent if the only way to combine of them to get zero, vector is by using zero to efficients
	using 2000 to UD
	an that
1,1	if there are non-zero scalars, a, az am that
	satisfies () they are dependent, meaning attent
	vector ais a combination of another.
	S 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
7/7	satisfies () they are dependent, meaning another. one vector (i) a combination of another. V1 = (1,0) V2 = (2,0) (1,0)
19:	V1 = (1,0)
U	V2= (0,1) + 02 (20)=(0,0)
	$v_1 = (1,0)$ $v_2 = (2,0)$ $v_3 = (0,0)$ $v_4 = (0,0)$
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	independent Pu
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	1/=(-2+2, 0)
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	dependent.
1997	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
×	a list of length one in vector space is independent if
	any only if the vector is not 0





substitute to O 10 = a,v, + agvg + ... ak (b,v, + b,v, + ...) + ... W = V1 (a1 + akb1) + V2 (a2 + akb2) Van (an + akbn) in span of ty, va val. in a finite dimensional vector space the length of every linearly independent list of vectors is less than or equal to the span of vectors. Do list of high 3 spans Rt. Frevelle 12 A bootsmarket with the a prove or disprove if v, va, v3, v4 spons V, then
list v4 va, va v3, v3 = v4, v4 also spons V. Span (V1, V2, V3, V4) = span (V1-V2, V2-V3, V3-V4, V4) V= 0, V1 + 02 V2 + 03 V3 + 04 V4 = 0, (V1 - V2) + 02 (V2 - V3) + 04 V4 Wy - 02 V2 - 02 V3 (10 - DO) = a, v, + (az -a), vz + (az -az) vz + 10 (04-02) VII