ansyl (a) in span { v, 3 mu, were so to soode to so as were some or
. Span {v,3 = \(\) c(-1) \ (\) (\(\) \ \(\) \ \(\) \ \(\) \ \(\) \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
{20,103 (109=) (501) } 20,103 / (100) (-10,103 / (-10,
-> Geometrically it is a line passing through origin
in direction of VI.
c) be soon for , v. 3 invaging a plane in 183 gaing through both vectors in
· af {vi} = {cv, c=1}
Scheometrically its would bempoint solve (Riot) mess at \$1, 8 av. N } the of co
Conv { VI S Now S CINITICS AND CIFCE = 15 \$ +C" (5 > 10) 3 (8
-> Geometricely it would be to a miner segment to destare and a
joining v, 4 vz
~ ~ ~ e
(ii) > Span & vive 3 = { CIVI+CEV2 CIICE EIR } suppression south of
->it is plane in IR (2 vectors) passing through origin
->it is plane in iRi (2 vectors) passing through origin
-> of {v,v, }- {c,v, c,v, c,v, c,tes, = 1, (c,tes) + 123 = 1
-> it would be a translated line passing though v, 4 v2 but not
extending belond them.

Date:	5
Amarmad leading Guzun	
$con \{v,3 = \{v,3 = \{v,3 = all \{v,3 = anl \{v$	•
7-50	(
-> it would be a foint in space	6
	E
* the convex hull is a subset of affine hull, which is a que years	•
Subset of span. 3 (2) (1) = (2) 1 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	€
conv {v, v-} (line segment) (a4 · {v, v-} (the) (span {v, v-}	•
(soor)	
-> Geometric Pelationships 1-	-
(1) be span &vi, v2 3 imagine a plane in IR3 going though both vectors &	9
off End = Eco, 10=1	е Ф
(2) for all {11,123, it is essentially the same plane but translated so it	4
includes all points in the plane bimed by V. & Ve-	4
(3) be conv { VIVE 3, it is just the line segment bew views, which	4
is the shockest path and connecting them a brown is phosphania and	4
svis, v pointo	4
Ans 2:-	4
-> Go affine independence { Sild s), i) (VE) (VI) } = E 14, 12 noge = (ii)	4
Company of the Compan	4
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ton his 00 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
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R	-> 50,05 the rank = 3, which is no. of rectors, so rectors are almost a.
8	independent.
6	[1] [[[[[[[[[[[[[[[[[[
1	· for Bacy centric coordinates -
2	C 6 0 0 1- 1 0 194181 11 111
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C	ex-25 0 0 0 400 0 0 0 0 0 0 0 0 0 0 0 0 0 0
F	P3+202 00 = 1 -3 = 3.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8	(00 31-5) 41-5 (00 31-5)
	(iii) for other independence -
0	entules 001 3 - 6+4+3+12-12=11/200 antocardia
6	R5-3R3 [000] 12 . So, bargcentric coordinates are {-6,4,3,12,-12}
8	(b (E- 5)
	(ii) -> for affine independence:
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4	120-6 0 12-4 0 12-18 0 0 -6 0
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(1	eyol, o o 1900 1951 the rank is 3, which is equal to
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