Chir. Vecur Spaces & Vecros spaces and zubspaces. Symmetric Mourix 1) A= AT RTR is aways symmetric we can take the warspose (RTR) T= 21 RTT Vector Space ox. R2 all 2-dimensional real n and component (se component. propert

22 rectors with in coleun. (n components) I can we do shose addresson and sull in the spaces? Ans: Yes ea a versor space mode & =) subspace of R² I line in R chrough zero versor Jo all in R any line shrough [] @ zero versor ony = Z 23: Plane / line / Z= [0] Q Now shay come one of Marrices. Drs: all their comb. For a subspace call val space CCA) Vector Space regularements vew and cv are in the Space, comb. wid ove In the space. plane chrough [] is subspace of R3 R3

	bspaces . Pand L.	
PUL: all vec	vors in Por 2 or both.	<u> </u>
POL: all vec	iors in both Pard 2	- 0)
	which is a subspace?,	Ans · co
Subspaces 5 as	rd 7 taterstorion 5 n ?	78 or Subspace.
	of 13 15 a subspace of	
314	- all linear comb. of co	75.
(2)		
Q. Does AZ	b have a solution for even	eng b? Ansi No
12-121	3 1 7 × 1 1 - 1 200	
132	$\begin{cases} \frac{3}{2} \\ $	
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Q, Which veca		20 be solve:
exactally wh	en b 15 in ceps (In	RED
Noll space of	f a contains of in	
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A2 2 3	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
13,5) (3) (0)	

Check those solutions to A20 I Avo and Awo. line is R then Alvewsor. A= $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 7 & 4 & 6 & 8 \\ 8 & 10 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ eighby $\begin{bmatrix} 1 & 2 & 2 \\ 0 & 0 & 0 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 & 0 & 2 & 4 \end{bmatrix}$ = $\begin{bmatrix} 1 & 2 & 2 & 2 \\ 0 &$ Xelight die Neexanxino h-r= x-r tree varable

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