

24.	203 MATH 4 EXM PAIN Part of $Ax + 6y + 7(z = 0)$ $A + 26 + 3c = 0$ $A + 8 = 0$
	0 = 9 3 = (A) v(a)

3.A. but and director for now, colors and null for Ranki (A) = dim Ras (A) = dm d (A) = 1 Nulling (A) = 4-3 = 3 BON for own pu ed (A) = Spor \(\frac{2}{-3} \) \(Burd for null spu Ax = 3 (0 1 - 21) Drennun = 3. $\begin{pmatrix}
0 & 1 & -2 & 1 \\
0 & 0 & 0 & 0
\end{pmatrix}
\begin{pmatrix}
x \\
y \\
z
\end{pmatrix} = 0$ y = 2z + w = 0 $x_1 = S_1$ y = 2z - w $x_2 = S_3$ $x_4 = S_4$ $x_5 = S_3$ $x_5 = S_3$ $x_6 = S_1$ $x_7 = S_2$ $x_8 = S_3$ $x_8 =$ Wull (A) = Spor & (1,0,0,0), (0,2,10), (0,-1,01)} B ROW and director for new column and null spor Ran (A) = dm (Ra (A)) = am (a)(A) = Nully (A) = 2-2 =0 Bull for row space = row(A) = Span & (1-1/2), (Q1)

Bull for row space = row(A) = Span & (1-1/2), (Q1)

Bull for colon for all = Span & (1-1/2), (Q1)

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Bull for row space = row(A) = Span & (1-1/2), (Q1)

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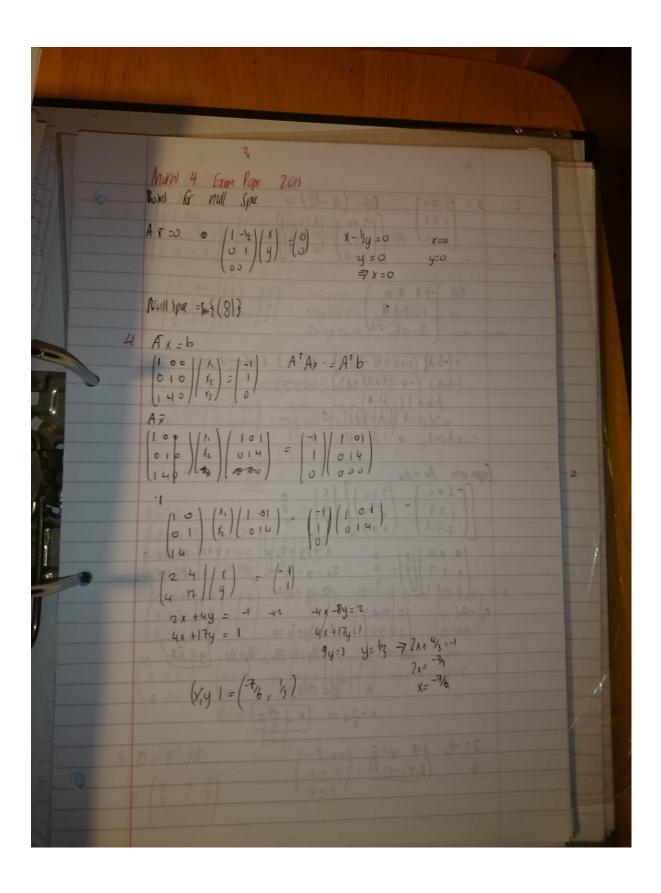
Bull for row space = row(A) = Span & (1-1/2), (Q1)

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Bull for colon for all = Span & (1-1/2), (Q1)

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4		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	_0_	
24-2/ let 123 - 0 h 0 2	1000	5
		203 Num.
Det. -3-1 0 0)		1 2 3
Det [-3-1 0 0] 1 2-1 3 2 -2 -2-1)		1 2 4-2
1 2 12		1 13
$+(-3-\lambda)(2-\lambda)(-2-\lambda)-(0)(-2)-0()+0()$ $(-3-\lambda)(-4-2\lambda+2\lambda+\lambda^2)$	-	2-1-
$(-3-\lambda)(\lambda^2-4)$ $(-3-\lambda)(\lambda+1)(\lambda-1)=0$		T. 15
1=-> a 1=+11 1/2=-1. 1101 1/11 2011		r, -4
From un Av = Xv		2 70 1
[-300] X 0		100
$\begin{bmatrix} -3 & 0 & 0 \\ 1 & 2 & 3 \\ 2 & -1 & -2 \end{bmatrix} = \begin{bmatrix} -3 & 0 & 0 \\ 0 & -3 & 0 \\ 0 & 0 & -3 \end{bmatrix} = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$		λ= -1
1000 14 0 X + 5y + 3z 20 X +5z-10x +3z=0		12
$ \begin{vmatrix} 0 & 0 & 0 & 0 \\ 1 & 5 & 3 & 0 \\ 2 & -1 & 1 & 0 \end{vmatrix} = 0 $		12
r3 - 2r = 1000 V 1 2		2
$r_3 - 2r_1 = \begin{cases} 0.00 \\ 1.53 \end{cases} \times +3y+3z=0$ $\begin{cases} -11-5 \\ 0-11-5 \end{cases} = \begin{cases} -11y-5z=0 \\ 1y=-5z \end{cases} = \begin{cases} -12 \\ 1y=-5z \end{cases}$		10-
-25 12 19-11Z		10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		h D =
2 = -11, $x = 8$ $y = 5$ $0, = (8, 5, -11)$		P:

