



By matrix - multiplication, we get

11/1/8/80/8 //

 $x_1 + x_2 + 7xy - 2x_5 = 0$.

on $x_1 = -x_2 - 7x_4 + 2x_5$ on $x_3 = 2x_4 - 2x_5$

Writing in vector form,

 0					7 25	2	1
21,	2/2	[-I	dy	-+	713	6	
2/2		1		6	L .	-2	-
213	=	0	+	2	9	0	
914		0		, 1		1	
L 915		0		0_			

Here,
$$\vec{a} = (-1, 1, 0, 0, 0)$$

 $\vec{b} = (-7, 0, 2, 1, 0)$
 $\vec{c} = (2, 0, 2, -2, 0, 1)$

Thus,

nullity = 3.