$$1.2.3a(, 1.2.11ace, 1.2.13)$$

 $1.3.7$
 $2.1.15ac$

$$\chi_{1} = -1 - \chi_{2} - 3\chi_{4} - \chi_{5}$$
 $\chi_{2} = \chi_{2}$
 $\chi_{3} = 2 + \chi_{4} - \chi_{5}$
 $\chi_{4} = \chi_{4}$
 $\chi_{5} = \chi_{5}$

$$76 = 3$$
 $72, 74, 75$ are arbitrary

C. $12, 13, 11$
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sand to are arbitrary

3 - () O -4R2 Rank (5 3) Rztki 1 1-13 口一考号 45-20541 0541 541 6340 R1-R2, R3-5R2 -= -= -==

C, + a, (3+a> 1.

astb, Swap R2 und R3 aztbz $C_2 + \alpha_2$

(.3.1)

a, infinte salutions
infinte salutions
b, infinte salutions

5 Para meters

Continue Salutions

3 ~ 5 parameters

d. infinite Salutions

3 ~ 5 parameters

$$A = \begin{bmatrix} -1 & 3 & 5 \\ -2 & -1 & -4 \end{bmatrix}$$

$$\left(2A - 3A\right)^7 = \begin{bmatrix} 2 \\ -1 \end{bmatrix} - \begin{bmatrix} -3 \\ -6 \\ 0 \end{bmatrix}$$

$$-A^{\mathsf{T}}$$
 $-\left[\begin{array}{c} 5\\ 1\\ -1 \end{array}\right]$

$$\left(A^{T}\right)^{T} = \begin{bmatrix} -5 \\ 5 \\ -1 \end{bmatrix}$$