Term Test Ba version 1

(1) [5 points]

(2) [5 points]

(3) [5 points]

(4) [5 points] Solve the following system of linear equations.

$$\begin{array}{rcrcrcr} 2a & - & 6b & - & 3c & = & 13 \\ -5a & - & 3b & + & c & = & 15 \\ 19a & - & 3b & - & 9c & = & -19 \end{array}$$

If the system is consistent and dependent, provide your answer in the form

$$S = \{u \in \mathbb{R}^3 \mid u \text{ corresponds to } \vec{u} = \vec{v_0} + s_1\vec{v_1} + \ldots + s_n\vec{v_n}\}$$

where the dimension of the solution space and $\in \mathbb{R} = 1, \ldots, nNotethat1000424273046118129100 0-1, -3, 1)^{\intercal}thesystem.$