Term Test Ba version 2

- **(1)** [5 points]
- **(2)** [5 points]
- (3) [5 points] Solve the following system of linear equations.

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 n is the dimension of the solution space and $s_i \in \mathbb{R}$ for i = 1, ..., n. Note that $(-2, 2, 1)^{\mathsf{T}}$ solves the system.

(4) [5 points]