

**Term Test Ba version 1**

(1) [5 points]

(2) [5 points]

(3) [5 points]

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

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

$$S = \{u \in \mathbb{R}^3 \mid u \text{ corresponds to } \vec{u} = \vec{v}_0 + s_1\vec{v}_1 + \dots + s_n\vec{v}_n\}$$

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