

Quiz 4
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(1) [10pts] Find a basis for the solution set of the homogeneous system

$$x + y - z = 0$$

$$3x + y + z = 0$$

Answer: .....

(2) [10pts]  $B_1 = \{(1, 2), (2, 3)\}$  and  $B_2 = \{(1, -1), (0, 2)\}$ . If  $(v)_{B_1} = (1, 4)$  what is  $(v)_{B_2}$ ?

Answer: .....