

## ADDITIONAL EXERCISES FOR SECTION I.3

For each of the following systems of linear equations, write the general solution as

$$\vec{p} + \sum t_i \vec{v}_i$$

where  $\vec{p}$  is a particular solution and  $\{\vec{v}_1, \dots, \vec{v}_h\}$  is a basis for the associated reduced equation (constants on right = 0).

L1.  $x - 3y + 5z = 3.$

L2.  $2x + 4y - z = 5.$

L3.  $x - y + z = 4$   
 $2x + y + 3z = 10.$

L4.  $x + 4y - 3z = 2$   
 $x - 2y + 2z = 1.$