

## Chapter 1

## Vectors

### 1.1. Vectors in Two and Three Dimensions

8. *What are the most important other people you know who are actively pursuing leadership?*



1. Although more difficult for students to represent than on paper, the figures should look something like the following. Note that the origin is not at a corner of the frame, but lies on the left of the frame.



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1.  $\langle 1, 1 \rangle + \langle 1, 1 \rangle = \langle 2, 2 \rangle = \langle 2 + 1, 1 + 1 \rangle = \langle 3, 2 \rangle$   
 $\langle 2, 2 \rangle + \langle 2, 2 \rangle = \langle 4, 4 \rangle = \langle 2 + 2, 2 + 2 \rangle = \langle 4, 4 \rangle$   
 $\langle 3, 2 \rangle + \langle 2, 2 \rangle = \langle 5, 4 \rangle = \langle 3 + 2, 2 + 2 \rangle = \langle 5, 4 \rangle$   
 $\langle 1, 1 \rangle + \langle 3, 2 \rangle = \langle 4, 3 \rangle = \langle 1 + 3, 1 + 2 \rangle = \langle 4, 3 \rangle$   
 $\langle 3, 2 \rangle + \langle 3, 2 \rangle = \langle 6, 4 \rangle = \langle 3 + 3, 2 + 2 \rangle = \langle 6, 4 \rangle$   
 2.  $\langle 1, 1 \rangle = \langle 1 - 1, 1 + 1 \rangle = \langle 0, 2 \rangle = \langle 0 + 1, 2 + 1 \rangle = \langle 1, 3 \rangle$   
 $\langle 1, 3 \rangle + \langle 1, 3 \rangle = \langle 2, 6 \rangle = \langle 1 + 1, 3 + 3 \rangle = \langle 2, 6 \rangle$   
 $\langle 2, 6 \rangle + \langle 2, 6 \rangle = \langle 4, 12 \rangle = \langle 2 + 2, 6 + 6 \rangle = \langle 4, 12 \rangle$   
 $\langle 4, 12 \rangle + \langle 4, 12 \rangle = \langle 8, 24 \rangle = \langle 4 + 4, 12 + 12 \rangle = \langle 8, 24 \rangle$   
 3. We start with the two vectors  $\mathbf{a}$  and  $\mathbf{b}$ . We can complete the parallelogram as in the figure on the left. The vector from the origin to the new vertex is the vector  $\mathbf{a} + \mathbf{b}$ . In the right figure we have translated vector  $\mathbf{b}$  so that its tail is the head of vector  $\mathbf{a}$ . The sum  $\mathbf{a} + \mathbf{b}$  is the directed line segment from the origin to the head of  $\mathbf{b}$ .

# Vector Calculus Colley 4th Edition Solution Manual

**G Thomas**



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