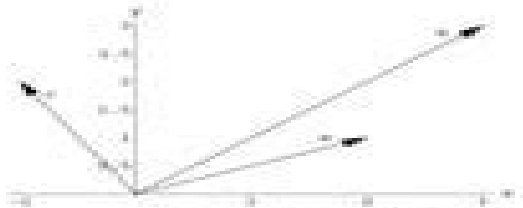
Chapter 1

Vectors

1.1 Vectors in Two and Three Dimensions

1. *Draw the given vectors in standard position.*



2. *Although vector algebra is not necessary to determine the components, you should check your answers by drawing the vectors in standard position and counting off the distances from the origin to the terminal point of the vector.*

In problems 3 and 4, you explicitly wrote down the zero vector. It is necessary to include the zero vector in order to have a vector space. Without it, many of the properties of vectors would not hold.

3. (a) $\langle 3,1\rangle + \langle -4,7\rangle = \langle 3+(-4), 1+7\rangle = \langle -1, 8\rangle$.
(b) $-3\langle 2,5\rangle - 2\langle -2,-4\rangle = \langle -6,-15\rangle + \langle 4,8\rangle = \langle -2,-7\rangle$.
(c) $\langle 4,9\rangle + 2\langle -1,2\rangle = \langle 4,9\rangle + \langle -2,4\rangle = \langle 2,13\rangle$.
(d) $\langle 3,1\rangle + 5\langle 3,6\rangle - 3\langle 5,2\rangle = \langle 3+15-15, 1+30-6\rangle = \langle 3,25\rangle$.
(e) $\langle 8,3\rangle + 3\langle 2,-2\rangle - 2\langle 4,1\rangle = \langle 8+6-8, 3-6-2\rangle = \langle 6,-5\rangle$.

4. (a) $\langle 2,1,-3\rangle + \langle -3,5,7\rangle = \langle 2-3, 1+5, -3+7\rangle = \langle -1, 6, 4\rangle$.
(b) $\tfrac{1}{2}\langle 6,4,1\rangle + 3\langle 2,-7,\tfrac{1}{3}\rangle - \langle 4,3,\tfrac{1}{2}\rangle = \langle 3,2,\tfrac{1}{2}\rangle + \langle 6,-21,1\rangle - \langle 4,3,\tfrac{1}{2}\rangle = \langle 5,-14,1\rangle$.
(c) $-2\langle 3,4,1\rangle - 4\langle \tfrac{1}{2},-\tfrac{1}{2},0\rangle = -2\langle 3,4,1\rangle - 2\langle 1,-1,0\rangle = \langle -6,-8,-2\rangle + \langle -2,2,0\rangle = \langle -8,-6,-2\rangle$.

5. 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 this new vertex is the vector $\mathbf{a}+\mathbf{b}$. In the figure on the right we have translated vector $\mathbf{b}$ so that its tail is the head of vector $\mathbf{a}$. The vector $\mathbf{a}+\mathbf{b}$ is the diagonal third side of the triangle.

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