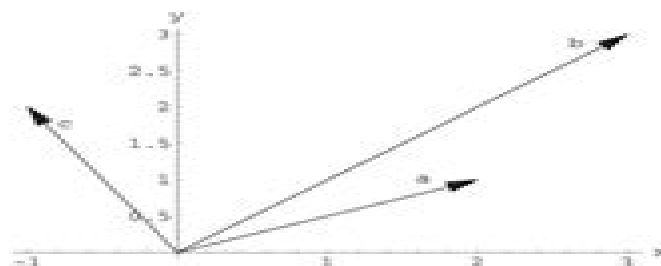


Chapter 1

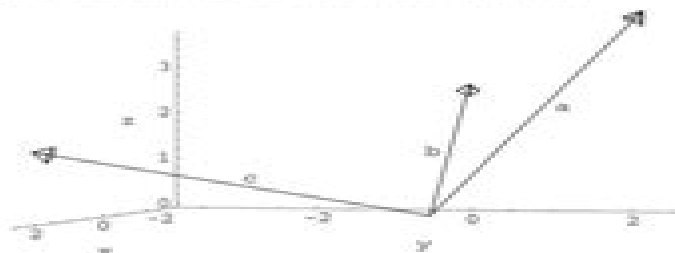
Vectors

1.1 Vectors in Two and Three Dimensions

1. Here we just connect the point $(0, 0)$ to the points indicated:



2. Although more difficult for students to represent this on paper, the figures should look something like the following. Note that the origin is not at a corner of the frame box but is at the tails of the three vectors.



In problems 3 and 4, we supply more detail than is necessary to stress to students what properties are being used:

3. (a) $\langle 3, 1 \rangle + \langle -1, 7 \rangle = \langle 3 + [-1], 1 + 7 \rangle = \langle 2, 8 \rangle$.
 (b) $-2\langle 8, 12 \rangle = \langle -2 \cdot 8, -2 \cdot 12 \rangle = \langle -16, -24 \rangle$.
 (c) $\langle 8, 9 \rangle + 3\langle -1, 2 \rangle = \langle 8 + 3\langle -1 \rangle, 9 + 3\langle 2 \rangle \rangle = \langle 5, 15 \rangle$.
 (d) $\langle 1, 1 \rangle + 5\langle 2, 6 \rangle - 3\langle 10, 2 \rangle = \langle 1 + 5 \cdot 2 - 3 \cdot 10, 1 + 5 \cdot 6 - 3 \cdot 2 \rangle = \langle -19, 25 \rangle$.
 (e) $\langle 8, 10 \rangle + 3\langle 8, -2 \rangle - 2\langle 4, 5 \rangle = \langle 8 + 3\langle 8 - 2 \cdot 4 \rangle, 10 + 3\langle -2 - 2 \cdot 5 \rangle \rangle = \langle 8, -26 \rangle$.
4. (a) $\langle 2, 1, 2 \rangle + \langle -3, 9, 7 \rangle = \langle 2 - 3, 1 + 9, 2 + 7 \rangle = \langle -1, 10, 9 \rangle$.
 (b) $\frac{1}{2}\langle 8, 4, 1 \rangle + 2\langle 5, -7, \frac{1}{2} \rangle = \langle 4, 2, \frac{1}{2} \rangle + \langle 10, -14, \frac{1}{2} \rangle = \langle 14, -12, 1 \rangle$.
 (c) $-2\left(\langle 2, 0, 1 \rangle - 6\left\langle \frac{1}{2}, -4, 1 \right\rangle\right) = -2(\langle 2, 0, 1 \rangle - \langle 3, -24, 6 \rangle) = -2\langle -1, 24, -5 \rangle = \langle 2, -48, 10 \rangle$.
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 sum $\mathbf{a} + \mathbf{b}$ is the directed third side of this triangle.

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S Nieto



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mass m moving at speed v is $\frac{1}{2}mv^2$. The work-energy theorem states that the net

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