

Chapter 1

Vectors

1.1 Vectors in Two and Three Dimensions

1. Here are just two of the points P , Q in the plane indicated.



2. Although many different flat surfaces can represent them on paper, the figures should look something like the following. Note that the origin is not at a corner of the prism. Also, the z -axis is the line of intersection of the planes.



In problems 3 and 4, we supply many details about the necessary or almost-necessary vector properties you have used.

3. $\langle 3, 1 \rangle + \langle 1, -3 \rangle = \langle 3+1, 1-3 \rangle = \langle 4, -2 \rangle$, $\langle 1, -3 \rangle = \langle 1, -3 \rangle$.
 $\langle 20, 12 \rangle + \langle 1, -2 \rangle = \langle 2+20, -2+12 \rangle = \langle 22, 10 \rangle$.
 $\langle 4, 9 \rangle + \langle 2, -1 \rangle = \langle 4+2, 9-1 \rangle = \langle 6, 8 \rangle$.
 $\langle 1, 1 \rangle + 2\langle 2, 5 \rangle = \langle 1+2(2), 1+2(5) \rangle = \langle 1+4, 1+10 \rangle = \langle 5, 11 \rangle$.
 $\langle 5, 10 \rangle + 3\langle 2, -1 \rangle = \langle 5+3(2), 10+3(-1) \rangle = \langle 5+6, 10-3 \rangle = \langle 11, 7 \rangle$.
 4. $\langle 2, 1, 2 \rangle + \langle 1, -3, 0 \rangle = \langle 2+1, 1-3, 2+0 \rangle = \langle 3, -2, 2 \rangle$.
 $\frac{1}{2}\langle 4, 8, 1 \rangle + 2\langle 5, -2, 1 \rangle = \langle 2, 4, \frac{1}{2} \rangle + \langle 10, -4, 2 \rangle = \langle 12, 0, \frac{5}{2} \rangle$.
 $-2\langle 12, 15, 1 \rangle + 4\langle 1, -4, 1 \rangle = \langle -24, -30, -2 \rangle + \langle 4, -16, 4 \rangle = \langle -20, -46, 2 \rangle$.
 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 $\mathbf{a} + \mathbf{b}$. So the figure on the right has been translated so that its tail is the head of vector $\mathbf{a}$. The sum $\mathbf{a} + \mathbf{b}$ is the directed line from the head of $\mathbf{a}$ to the head of $\mathbf{b}$.

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