

Chapter 1

Vectors

1.1 Vectors in Two and Three Dimensions

1. Here are just two of the points P , Q in the plane (pictured).



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 frame. Also, the tails of the three vectors



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

3. $\langle 3, 1 \rangle + \langle 1, -3 \rangle = \langle 3+1, 1-3 \rangle = \langle 4, -2 \rangle$
 $\langle 4, -2 \rangle + \langle 2, -4 \rangle = \langle 4+2, -2-4 \rangle = \langle 6, -6 \rangle$
 $\langle 6, -6 \rangle + \langle 3, 3 \rangle = \langle 6+3, -6+3 \rangle = \langle 9, -3 \rangle$
 $\langle 9, -3 \rangle + 3\langle 2, 0 \rangle = 3\langle 9, -3 \rangle = \langle 27, -9 \rangle$
 $\langle 27, -9 \rangle + 3\langle 0, 0 \rangle = 3\langle 27, -9 \rangle = \langle 81, -27 \rangle$
 $\langle 81, -27 \rangle + 3\langle 0, 0 \rangle = 3\langle 81, -27 \rangle = \langle 243, -81 \rangle$
 $\langle 243, -81 \rangle + 3\langle 0, 0 \rangle = 3\langle 243, -81 \rangle = \langle 729, -243 \rangle$
 $\langle 729, -243 \rangle + 3\langle 0, 0 \rangle = 3\langle 729, -243 \rangle = \langle 2187, -729 \rangle$
 $\langle 2187, -729 \rangle + 3\langle 0, 0 \rangle = 3\langle 2187, -729 \rangle = \langle 6561, -2187 \rangle$
 $\langle 6561, -2187 \rangle + 3\langle 0, 0 \rangle = 3\langle 6561, -2187 \rangle = \langle 19683, -6561 \rangle$
 $\langle 19683, -6561 \rangle + 3\langle 0, 0 \rangle = 3\langle 19683, -6561 \rangle = \langle 59049, -19683 \rangle$
 $\langle 59049, -19683 \rangle + 3\langle 0, 0 \rangle = 3\langle 59049, -19683 \rangle = \langle 177147, -59049 \rangle$
 $\langle 177147, -59049 \rangle + 3\langle 0, 0 \rangle = 3\langle 177147, -59049 \rangle = \langle 531441, -177147 \rangle$
 $\langle 531441, -177147 \rangle + 3\langle 0, 0 \rangle = 3\langle 531441, -177147 \rangle = \langle 1594323, -531441 \rangle$
 $\langle 1594323, -531441 \rangle + 3\langle 0, 0 \rangle = 3\langle 1594323, -531441 \rangle = \langle 4782969, -1594323 \rangle$
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 $\langle 3486784401, -1162261467 \rangle + 3\langle 0, 0 \rangle = 3\langle 3486784401, -1162261467 \rangle = \langle 10460353203, -3486784401 \rangle$
 $\langle 10460353203, -3486784401 \rangle + 3\langle 0, 0 \rangle = 3\langle 10460353203, -3486784401 \rangle = \langle 31381059609, -10460353203 \rangle$
 $\langle 31381059609, -10460353203 \rangle + 3\langle 0, 0 \rangle = 3\langle 31381059609, -10460353203 \rangle = \langle 94143178827, -31381059609 \rangle$
 $\langle 94143178827, -31381059609 \rangle + 3\langle 0, 0 \rangle = 3\langle 94143178827, -31381059609 \rangle = \langle 282429536481, -94143178827 \rangle$
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Vector Calculus Colley 4th Edition Solution Manual

Susan J. Colley



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