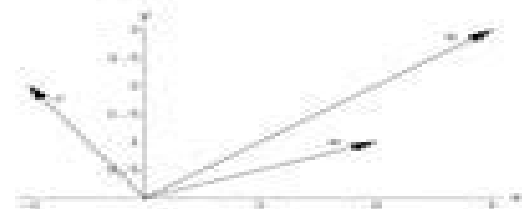


## Chapter 1

# Vectors

### 1.1 Vectors in Two and Three Dimensions

1. Draw (or just construct the points (0, 0) in the planes below):



2. Although more difficult for analysis, an equivalent (in our papers, the figures should look something like the following) shows that the origin is not in a corner of the triangle that has  $a$  as the tail of the three vectors.



In problems 3 and 4, use algebra every-where! When it is necessary to prove or establish what properties are being used!

3. **Tip:**  $(2, 3) + (-1, 2) = (2-1, 3+2) = (1, 5)$  or  $(2, 3) + (-1, 2) = (1, 5)$   
**Tip:**  $(-2, 4) + (1, -2) = (-2+1, 4-2) = (-1, 2)$  or  $(-2, 4) + (1, -2) = (-1, 2)$   
**Tip:**  $(4, 6) + (-2, -4) = (4-2, 6-4) = (2, 2)$  or  $(4, 6) + (-2, -4) = (2, 2)$   
**Tip:**  $(1, 2) + (2, 3) = (1+2, 2+3) = (3, 5)$  or  $(1, 2) + (2, 3) = (3, 5)$   
**Tip:**  $(3, 4) + (2, 5) = (3+2, 4+5) = (5, 9)$  or  $(3, 4) + (2, 5) = (5, 9)$   
**Tip:**  $(2, 3) + (-1, 2) = (2-1, 3+2) = (1, 5)$  or  $(2, 3) + (-1, 2) = (1, 5)$   
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4. We start with the same vectors as used in. We now complete the parallelograms as in the figure on the left. The vector from the origin to this same vertex is the vector  $a + b$ . In the figure on the right we have constructed vector  $b$  so that its tail is the head of vector  $a$ . The vector  $a + b$  is the directed third side of this triangle.

# Vector Calculus 5th Edition Marsden Solutions Manual

**Lei Shi**



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