

Chapter 1

Vectors

1.1 Vectors in Two and Three Dimensions

1. Draw (or just construct) the points (1) (2) in the picture below.



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 vertex of the triangle that has its tail at the tail of the three vectors.



In problems 3 and 4, you supply each student their own version of problem 1, and students will generate their own answers.

3. Say $\vec{a} = \langle 3, 1 \rangle$, $\vec{b} = \langle -1, 2 \rangle$, $\vec{c} = \langle 2, -1 \rangle$, $\vec{d} = \langle 0, 1 \rangle$, $\vec{e} = \langle 1, 0 \rangle$.
 a. $\vec{a} + \vec{b} = \langle 3, 1 \rangle + \langle -1, 2 \rangle = \langle 2, 3 \rangle$
 b. $\vec{a} + \vec{c} = \langle 3, 1 \rangle + \langle 2, -1 \rangle = \langle 5, 0 \rangle$
 c. $\vec{a} + \vec{d} = \langle 3, 1 \rangle + \langle 0, 1 \rangle = \langle 3, 2 \rangle$
 d. $\vec{a} + \vec{e} = \langle 3, 1 \rangle + \langle 1, 0 \rangle = \langle 4, 1 \rangle$
 e. $\vec{b} + \vec{c} = \langle -1, 2 \rangle + \langle 2, -1 \rangle = \langle 1, 1 \rangle$
 f. $\vec{b} + \vec{d} = \langle -1, 2 \rangle + \langle 0, 1 \rangle = \langle -1, 3 \rangle$
 g. $\vec{b} + \vec{e} = \langle -1, 2 \rangle + \langle 1, 0 \rangle = \langle 0, 2 \rangle$
 h. $\vec{c} + \vec{d} = \langle 2, -1 \rangle + \langle 0, 1 \rangle = \langle 2, 0 \rangle$
 i. $\vec{c} + \vec{e} = \langle 2, -1 \rangle + \langle 1, 0 \rangle = \langle 3, -1 \rangle$
 j. $\vec{d} + \vec{e} = \langle 0, 1 \rangle + \langle 1, 0 \rangle = \langle 1, 1 \rangle$
 k. $\vec{a} + \vec{b} + \vec{c} = \langle 3, 1 \rangle + \langle -1, 2 \rangle + \langle 2, -1 \rangle = \langle 4, 2 \rangle$
 l. $\vec{a} + \vec{b} + \vec{d} = \langle 3, 1 \rangle + \langle -1, 2 \rangle + \langle 0, 1 \rangle = \langle 2, 4 \rangle$
 m. $\vec{a} + \vec{b} + \vec{e} = \langle 3, 1 \rangle + \langle -1, 2 \rangle + \langle 1, 0 \rangle = \langle 3, 3 \rangle$
 n. $\vec{a} + \vec{c} + \vec{d} = \langle 3, 1 \rangle + \langle 2, -1 \rangle + \langle 0, 1 \rangle = \langle 5, 1 \rangle$
 o. $\vec{a} + \vec{c} + \vec{e} = \langle 3, 1 \rangle + \langle 2, -1 \rangle + \langle 1, 0 \rangle = \langle 6, 0 \rangle$
 p. $\vec{a} + \vec{d} + \vec{e} = \langle 3, 1 \rangle + \langle 0, 1 \rangle + \langle 1, 0 \rangle = \langle 4, 2 \rangle$
 q. $\vec{b} + \vec{d} + \vec{e} = \langle -1, 2 \rangle + \langle 0, 1 \rangle + \langle 1, 0 \rangle = \langle 0, 3 \rangle$
 r. $\vec{c} + \vec{d} + \vec{e} = \langle 2, -1 \rangle + \langle 0, 1 \rangle + \langle 1, 0 \rangle = \langle 3, 0 \rangle$
 s. $\vec{a} + \vec{b} + \vec{c} + \vec{d} = \langle 3, 1 \rangle + \langle -1, 2 \rangle + \langle 2, -1 \rangle + \langle 0, 1 \rangle = \langle 4, 3 \rangle$
 t. $\vec{a} + \vec{b} + \vec{c} + \vec{e} = \langle 3, 1 \rangle + \langle -1, 2 \rangle + \langle 2, -1 \rangle + \langle 1, 0 \rangle = \langle 5, 2 \rangle$
 u. $\vec{a} + \vec{b} + \vec{d} + \vec{e} = \langle 3, 1 \rangle + \langle -1, 2 \rangle + \langle 0, 1 \rangle + \langle 1, 0 \rangle = \langle 3, 4 \rangle$
 v. $\vec{a} + \vec{c} + \vec{d} + \vec{e} = \langle 3, 1 \rangle + \langle 2, -1 \rangle + \langle 0, 1 \rangle + \langle 1, 0 \rangle = \langle 6, 1 \rangle$
 w. $\vec{b} + \vec{c} + \vec{d} + \vec{e} = \langle -1, 2 \rangle + \langle 2, -1 \rangle + \langle 0, 1 \rangle + \langle 1, 0 \rangle = \langle 2, 2 \rangle$
 x. $\vec{a} + \vec{b} + \vec{c} + \vec{d} + \vec{e} = \langle 3, 1 \rangle + \langle -1, 2 \rangle + \langle 2, -1 \rangle + \langle 0, 1 \rangle + \langle 1, 0 \rangle = \langle 5, 3 \rangle$
 y. $\vec{a} + \vec{b} + \vec{c} + \vec{d} + \vec{e} = \langle 3, 1 \rangle + \langle -1, 2 \rangle + \langle 2, -1 \rangle + \langle 0, 1 \rangle + \langle 1, 0 \rangle = \langle 5, 3 \rangle$
 z. $\vec{a} + \vec{b} + \vec{c} + \vec{d} + \vec{e} = \langle 3, 1 \rangle + \langle -1, 2 \rangle + \langle 2, -1 \rangle + \langle 0, 1 \rangle + \langle 1, 0 \rangle = \langle 5, 3 \rangle$

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Michael J. Hoffman, Jerrold E. Marsden



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 - The Rise of Digital Reading Vector Calculus Freeman Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Vector Calculus Freeman Solutions Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Vector Calculus Freeman Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Vector Calculus Freeman Solutions Manual
 - Personalized Recommendations
 - Vector Calculus Freeman Solutions Manual User Reviews and Ratings
 - Vector Calculus Freeman Solutions Manual and Bestseller Lists

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 - Highlighting and Note-Taking Vector Calculus Freeman Solutions Manual
 - Interactive Elements Vector Calculus Freeman Solutions Manual
8. Staying Engaged with Vector Calculus Freeman Solutions Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Vector Calculus Freeman Solutions Manual
9. Balancing eBooks and Physical Books Vector Calculus Freeman Solutions Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Vector Calculus Freeman Solutions Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Vector Calculus Freeman Solutions Manual
 - Setting Reading Goals Vector Calculus Freeman Solutions Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Vector Calculus Freeman Solutions Manual
 - Fact-Checking eBook Content of Vector Calculus Freeman Solutions Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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