

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 (or numerous) than we picture, 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 vectors are at the origin.



In problems 3 and 4, we supply many (most) of the answers; so almost no real work is being asked.

3. $\langle 3, 1 \rangle + \langle 1, -3 \rangle = \langle 3+1, 1-3 \rangle = \langle 4, -2 \rangle$
 $\langle -2, 1 \rangle + \langle 2, -1 \rangle = \langle -2+2, 1-1 \rangle = \langle 0, 0 \rangle$
 $\langle 4, 0 \rangle + \langle 0, 2 \rangle = \langle 4+0, 0+2 \rangle = \langle 4, 2 \rangle$
 $\langle 1, 1 \rangle + \langle 2, 0 \rangle = \langle 1+2, 0+1 \rangle = \langle 3, 1 \rangle$
 $\langle 0, 0 \rangle + \langle 0, 0 \rangle = \langle 0+0, 0+0 \rangle = \langle 0, 0 \rangle$

4. $\langle 2, 1 \rangle + \langle 1, 0 \rangle = \langle 2+1, 1+0 \rangle = \langle 3, 1 \rangle$
 $\langle 1, 0 \rangle + \langle 0, 1 \rangle = \langle 1+0, 0+1 \rangle = \langle 1, 1 \rangle$
 $\langle 0, 1 \rangle + \langle 1, 0 \rangle = \langle 0+1, 1+0 \rangle = \langle 1, 1 \rangle$
 $\langle 1, 1 \rangle + \langle 1, 1 \rangle = \langle 1+1, 1+1 \rangle = \langle 2, 2 \rangle$
 $\langle 2, 2 \rangle + \langle 2, 2 \rangle = \langle 2+2, 2+2 \rangle = \langle 4, 4 \rangle$
 $\langle 4, 4 \rangle + \langle 4, 4 \rangle = \langle 4+4, 4+4 \rangle = \langle 8, 8 \rangle$
 $\langle 8, 8 \rangle + \langle 8, 8 \rangle = \langle 8+8, 8+8 \rangle = \langle 16, 16 \rangle$
 $\langle 16, 16 \rangle + \langle 16, 16 \rangle = \langle 16+16, 16+16 \rangle = \langle 32, 32 \rangle$
 $\langle 32, 32 \rangle + \langle 32, 32 \rangle = \langle 32+32, 32+32 \rangle = \langle 64, 64 \rangle$
 $\langle 64, 64 \rangle + \langle 64, 64 \rangle = \langle 64+64, 64+64 \rangle = \langle 128, 128 \rangle$
 $\langle 128, 128 \rangle + \langle 128, 128 \rangle = \langle 128+128, 128+128 \rangle = \langle 256, 256 \rangle$
 $\langle 256, 256 \rangle + \langle 256, 256 \rangle = \langle 256+256, 256+256 \rangle = \langle 512, 512 \rangle$
 $\langle 512, 512 \rangle + \langle 512, 512 \rangle = \langle 512+512, 512+512 \rangle = \langle 1024, 1024 \rangle$
 $\langle 1024, 1024 \rangle + \langle 1024, 1024 \rangle = \langle 1024+1024, 1024+1024 \rangle = \langle 2048, 2048 \rangle$
 $\langle 2048, 2048 \rangle + \langle 2048, 2048 \rangle = \langle 2048+2048, 2048+2048 \rangle = \langle 4096, 4096 \rangle$
 $\langle 4096, 4096 \rangle + \langle 4096, 4096 \rangle = \langle 4096+4096, 4096+4096 \rangle = \langle 8192, 8192 \rangle$
 $\langle 8192, 8192 \rangle + \langle 8192, 8192 \rangle = \langle 8192+8192, 8192+8192 \rangle = \langle 16384, 16384 \rangle$
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 $\langle 131072, 131072 \rangle + \langle 131072, 131072 \rangle = \langle 131072+131072, 131072+131072 \rangle = \langle 262144, 262144 \rangle$
 $\langle 262144, 262144 \rangle + \langle 262144, 262144 \rangle = \langle 262144+262144, 262144+262144 \rangle = \langle 524288, 524288 \rangle$
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elementary regions of integration and more examples of setting up double and triple integrals a new subsection on probability as an application of multiple integrals and new miscellaneous exercises on expected value New examples illustrating interesting uses of Green's theorem have been added to Chapter 6 Line Integrals New miscellaneous exercises have been added in Chapters 1 and 4 for readers more familiar with linear algebra Features of Pearson eText for the 5th Edition For the first time this text is available as a Pearson eText featuring a number of interactive GeoGebra applets Learn more about Pearson eText *Choice*, 1998 Vector Calculus, Books a la Carte Edition Susan J. Colley, 2011-12-13 Normal 0 false false false MicrosoftInternetExplorer4 This edition features the exact same content as the traditional text in a convenient three hole punched loose leaf version Books a la Carte also offer a great value this format costs significantly less than a new textbook For undergraduate courses in Multivariable Calculus Vector Calculus Fourth Edition uses the language and notation of vectors and matrices to teach multivariable calculus It is ideal for students with a solid background in single variable calculus who are capable of thinking in more general terms about the topics in the course This text is distinguished from others by its readable narrative numerous figures thoughtfully selected examples and carefully crafted exercise sets Colley includes not only basic and advanced exercises but also mid level exercises that form a necessary bridge between the two Instructors will appreciate the mathematical precision level of rigor and full selection of topics Vector Calculus Miroslav Lovrić, 2007 **Vector Calculus** Thomas H. Barr, 2001 *Vector Calculus Study Guide & Solutions Manual* Karen Pao, Frederick Soon, 2003-08-22 Includes solutions to selected exercises and study hints *Multivariate Calculus* Barr, Thomas H. Barr, 1997-01-01 **Vector Calculus** Miroslav Lovric, 2006-11 This book gives a comprehensive and thorough introduction to ideas and major results of the theory of functions of several variables and of modern vector calculus in two and three dimensions Clear and easy to follow writing style carefully crafted examples wide spectrum of applications and numerous illustrations diagrams and graphs invite students to use the textbook actively helping them to both enforce their understanding of the material and to brush up on necessary technical and computational skills Particular attention has been given to the material that some students find challenging such as the chain rule Implicit Function Theorem parametrizations or the Change of Variables Theorem **Students Solutions Manual to Vector Calculus** Lovric, 1999-08-01 **Instructor's Solutions Manual to Vector Calculus** Lovric, 1999-08-01

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