

Ţ <u>Help</u>

sandipan_dey ~

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(1)

1.3.2 Vector Addition

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Week 1 due Oct 5, 2023 03:12 IST Completed

1.3.2 Vector Addition



Start of transcript. Skip to the end.

Dr. Robert van de Geijn: Let's look at how to add vectors.

We will start with a geometric interpretation in two dimensions.

So to illustrate this, let's start with two vectors.

Vector x is a vector that goes over 4 and, down 3.

▶ 0:00 / 0:00

▶ 2.0x া 🔀 🚾 😘

Video

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Transcripts

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Reading Assignment

0 points possible (ungraded) Read Unit 1.3.2 of the notes. [LINK]



Done



Submit

Share other examples of how vector addition is used in sports

Topic: Week 1 / 1.3.2 Parallelogram method for addition

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Archery

The movement of an arrow in archery due to wind adds the wind velocity vector to the arrow velocity vector resulting in the diagonally calculate...

Biking example

Cyclists experience various forces like wind resistance and gravity while riding. Vector addition helps cyclists determine their net force and direc....

Vectors in Sports

Loubanacionals would calculate Vectors when Lives in E. Sports. Vectors mainly do with location and positioning, which when taking your

■ Calculator

I subconsciously would calculate vectors when I was in E-Sports, vectors mainly do with location and positioning, which when taking your direct...

sports example

A jogger might use vector addition to approximate the distance between their home and current location. If the distance is much shorter than th...

Vector addition

Vector addition can be seen in soccer as one player running on the field represents a vector and another player running on the other side repres...

Week 1 Proofs - Subsection 1.3

The videos for answers to assignments are in a mess. 1. The transcript for Homework 1.3.2.3 is wrong. It's not for this video. 2. For Homework 1....

Don't Forget to Click Show Answers for the Always, Sometimes, Never Questions 1 When I first took this course, I didn't try to prove the correct answers for the Always, Sometimes, Never questions and forgot to forgot to click S...

Homework 1.3.2.1

2/2 points (graded)

$$\begin{pmatrix} -1 \\ 2 \end{pmatrix} + \begin{pmatrix} -3 \\ -2 \end{pmatrix} = \begin{bmatrix} -4 \\ 0 \end{bmatrix}$$
 Answer: -4

Submit

Answers are displayed within the problem

Homework 1.3.2.2

2/2 points (graded)

$$\begin{pmatrix} -3 \\ -2 \end{pmatrix} + \begin{pmatrix} -1 \\ 2 \end{pmatrix} = \begin{bmatrix} -4 \\ 0 \end{bmatrix}$$
 Answer: -4

Submit

Answers are displayed within the problem

Homework 1.3.2.3

1/1 point (graded)

For
$$x,y\in\mathbb{R}^n, x+y=y+x$$
.

Answer: Always Always

Explanation

1

3

7

Transcripted in final section of this week Scanned solution from video

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Answers are displayed within the problem

Homework 1.3.2.4

2/2 points (graded)

$$\left(\begin{pmatrix} -1 \\ 2 \end{pmatrix} + \begin{pmatrix} -3 \\ -2 \end{pmatrix} \right) + \begin{pmatrix} 1 \\ 2 \end{pmatrix} = \begin{array}{c} -3 \\ 2 \\ \end{array}$$
 Answer: -3

Submit

Answers are displayed within the problem

Homework 1.3.2.5

2/2 points (graded)

Submit

Answers are displayed within the problem

Homework 1.3.2.6

1/1 point (graded)

For
$$x,y,z\in\mathbb{R}^n, (x+y)+z=x+(y+z)$$
 .

Always

Answer: Always

Explanation

video

<u>Transcripted in final section of this week</u>

Scanned solution from video

Submit

• Answers are displayed within the problem

Homework 1.3.2.7

2/2 points (graded)

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Answers are displayed within the problem

Homework 1.3.2.8

1/1 point (graded)

For $x \in \mathbb{R}^n, x+0=x$

where $\mathbf{0}$ is the zero vector of appropriate size.

Always ✓ ✓ Answer: Always

Explanation

Transcripted in final section of this week

Submit

• Answers are displayed within the problem

View the following video and find out how the "parallelogram method" for vector addition is useful in sports:

https://www.nsf.gov/news/mmg/mmg_disp.jsp?med_id=69233&from=

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