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1.3.3 Scaling

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

1.3.3 Scaling

Start of transcript. Skip to the end.

▶

Dr. Robert van de Geijn: The next operation that's important is to understand how to scale a vector. Scaling, we're going to see, is going to be the same stretching a vector. Let's have a look. We'll do so by first looking at an example. Here we have a vector x , which has

0:00 / 0:00

▶ 2.0x

🔊

🔍

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Reading Assignment

0 points possible (ungraded)
Read Unit 1.3.3 of the notes. [\[LINK\]](#)

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Topic: Week 1 / 1.3.3

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💬	Why scaling a vector with a negative quantity doesn't change its direction?	9	▼
	We have, $x = \mathbb{R}^n$ then if we have a scaling factor $\alpha < 0$, and we scale our vector by this factor then why do our vector doesn't change its dir...		
?	Is Scaling Symmetrical?	4	▼

Homework 1.3.3.1

🧮 Calculator

2/2 points (graded)

$$\left(\begin{pmatrix} -1 \\ 2 \end{pmatrix} + \begin{pmatrix} -1 \\ 2 \end{pmatrix}\right) + \begin{pmatrix} -1 \\ 2 \end{pmatrix} =$$

-3

✓ Answer: -3

6

✓ Answer: 6

Submit

Answers are displayed within the problem

Homework 1.3.3.2

2/2 points (graded)

$$3 \times \begin{pmatrix} -1 \\ 2 \end{pmatrix} =$$

-3

✓ Answer: -3

6

✓ Answer: 6

Submit

Answers are displayed within the problem

Homework 1.3.3.3

3/3 points (graded)

Practice 1.6 Consider the following picture:

Which vector equals $2a$?; $1/2a$? ; and $-1/2a$?

which vector equals
 $2a$

d

▼

✔ Answer: d

$(1/2)a$

b

▼

✔ Answer: b

$-(1/2)a$

c

▼

✔ Answer: c

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ⓘ

Answers are displayed within the problem

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Calculator



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