

Ţ <u>Help</u>

sandipan_dey ~

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☆ Course / Week 9: Vector Spaces / 9.2 When Systems Don't Have a Unique Solution

(

9.2.4 What is Going On?

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⊞ Calculator

Week 9 due Dec 9, 2023 18:12 IST Completed

9.2.4 What is Going On?

Video



Start of transcript. Skip to the end.

Dr. Robert van de Geijn: OK, so let's explain

what was going on in the last unit.

We had a linear system that could be represented as Ax equals b.

We had a solution to that system.

We're going to call it the specific

O:00 / 0:00

▶ 2.0x





66



Video

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Transcripts

Reading Assignment

0 points possible (ungraded) Read Unit 9.2.4 of the notes. [LINK]



Done



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✓ Correct

Discussion

Topic: Week 9 / 9.2.4

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⊞ Calculator

Homework 9.2.4.1

1/1 point (graded)

Let $Ax_s=b$, $Ax_{n_0}=0$ and $Ax_{n_1}=0$. Also, let $eta_0,eta_1\in\mathbb{R}$. Then $A\left(x_s+eta_0x_{n_0}+eta_1x_{n_1}
ight)=b$.

Always

✓ Answer: Always

$$egin{array}{lll} A\left(x_{s}+eta_{0}x_{n_{0}}+eta_{1}x_{n_{1}}
ight) &=& < ext{Distribute } A> \ Ax_{s}+A\left(eta_{0}x_{n_{0}}
ight)+A\left(eta_{1}x_{n_{1}}
ight) &=& < ext{Constant can be brought out}> \ Ax_{s}+eta_{0}Ax_{n_{0}}+eta_{1}Ax_{n_{1}} &=& < Ax_{s}=b ext{ and } Ax_{n_{0}}=Ax_{n_{1}}=0> \ b+0+0 &=& < ext{algebra}> \ b. \end{array}$$

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