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sandipan_dey 🗸

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⊞ Calculator

E2.2.6 Sample Exam Answers and Videos Questions 9-10

9. Let $L_A: \mathbb{R}^3 \to \mathbb{R}^3$ be linear transformations with

$$L_A\left(\begin{pmatrix}1\\3\\2\end{pmatrix}\right) = \begin{pmatrix}1\\0\\0\end{pmatrix}, L_A\left(\begin{pmatrix}-2\\-1\\1\end{pmatrix}\right) = \begin{pmatrix}0\\1\\0\end{pmatrix}, L_A\left(\begin{pmatrix}0\\1\\2\end{pmatrix}\right) = \begin{pmatrix}0\\0\\1\end{pmatrix}$$

Let A be the matrix that represents linear transformation L_A . Compute

$$A^{-1} =$$

(Hint: it is not necessary to compute A!)

ANSWER:

Link to PDF

Question 9: Answer

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10. Let A have an inverse and let $\beta \neq 0$. Prove that $(\beta A)^{-1} = \frac{1}{\beta} A^{-1}$. ANSWER: PDF of Answer **Question 10: Video** ▶ 0:00 / 0:00 ▶ 2.0x 66 X CC **Video ▲** Download video file **Transcripts** ▲ Download SubRip (.srt) file Discussion **Hide Discussion** Topic: Exam 2 / 2.2 Sample Exam Questions 9 and 10 **Add a Post** by recent activity 🗸 Show all posts Previous Next >

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