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

9. Let $L_A : \mathbb{R}^3 \rightarrow \mathbb{R}^3$ 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:

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Question 9: Answer

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