E2.2.2 Sample Exam Answers and Videos Questions 1-2

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1. Compute the following:

(a) $\begin{pmatrix} 1 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & 1 \end{pmatrix} \begin{pmatrix} 1 & -2 & 0 \\ 0 & 1 & 0 \\ 0 & 4 & 1 \end{pmatrix} =$

(b) $\begin{pmatrix} 1 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & 1 \end{pmatrix}^{-1} =$

(c) $\begin{pmatrix} 1 & -2 & 0 \\ 0 & 1 & 0 \\ 0 & 4 & 1 \end{pmatrix}^{-1} =$

(d) $\begin{pmatrix} 1 & -2 & 0 \\ 0 & 2 & 0 \\ 0 & 4 & 1 \end{pmatrix}^{-1} =$

ANSWER:

PDF of Answer

Question 1: Answer

2. Assume $\delta \neq 0$.

$$\begin{pmatrix} 1 & -\alpha & 0 \\ 0 & \delta & 0 \\ 0 & -\beta & 1 \end{pmatrix}^{-1} = \begin{pmatrix} 1 & \alpha/\delta & 0 \\ 0 & 1/\delta & 0 \\ 0 & \beta/\delta & 1 \end{pmatrix}$$

Always/Sometimes/Never

Justify (prove) your answer.

ANSWER:

PDF of Answer

Question 2: Answer

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