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

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

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:

 Calculator

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Question 2: Answer

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