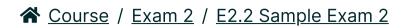


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## E2.2.2 Sample Exam Answers and Videos Questions 1-2

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  $\delta \neq 0$ .

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

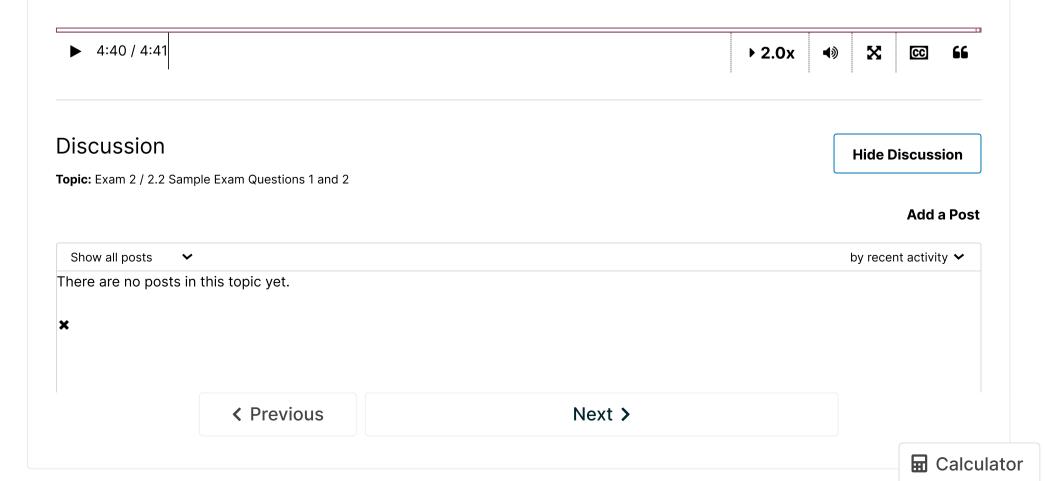
Always/Sometimes/Never

Justify (prove) your answer.

ANSWER:

PDF of Answer

**Question 2: Answer** 



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