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E1.3.6 Exam Question 6

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Exam 1 due Oct 31, 2023 09:12 IST Completed

Question 6

16/16 points (graded)

Compute

$$(-1) \begin{pmatrix} 3 \\ 1 \end{pmatrix} = \begin{pmatrix} -3 \\ -1 \end{pmatrix}$$

✓ Answer: -3

✓ Answer: -1

●

$$2 \begin{pmatrix} -1 \\ 2 \end{pmatrix} = \begin{pmatrix} -2 \\ 4 \end{pmatrix}$$

✓ Answer: -2

✓ Answer: 4

●

$$\begin{pmatrix} 3 & -1 \\ 1 & 2 \end{pmatrix} \begin{pmatrix} -1 \\ 2 \end{pmatrix} = \begin{pmatrix} -5 \\ 3 \end{pmatrix}$$

✓ Answer: -5

✓ Answer: 3

$$\begin{pmatrix} 3 & -1 \\ 1 & 2 \end{pmatrix} \begin{pmatrix} 0 \\ 1 \end{pmatrix} = \begin{pmatrix} -1 \\ 2 \end{pmatrix}$$

✓ Answer: -1

✓ Answer: 2

●

$$\begin{pmatrix} 3 & -1 \\ 1 & 2 \end{pmatrix} \begin{pmatrix} -1 & 0 \\ 2 & 1 \end{pmatrix} = \begin{matrix} \boxed{-5} & \checkmark \text{ Answer: } -5 & \boxed{-1} & \checkmark \text{ Answer: } -1 \\ \boxed{3} & \checkmark \text{ Answer: } 3 & \boxed{2} & \checkmark \text{ Answer: } 2 \end{matrix}$$

●

$$\begin{pmatrix} -1 & 0 \\ 2 & 1 \end{pmatrix}^T \begin{pmatrix} 3 & -1 \\ 1 & 2 \end{pmatrix}^T = \begin{matrix} \boxed{-5} & \checkmark \text{ Answer: } -5 & \boxed{3} & \checkmark \text{ Answer: } 3 \\ \boxed{-1} & \checkmark \text{ Answer: } -1 & \boxed{2} & \checkmark \text{ Answer: } 2 \end{matrix}$$

●

$$(a) \quad (-1) \begin{pmatrix} 3 \\ 1 \end{pmatrix} = \begin{pmatrix} -3 \\ -1 \end{pmatrix}$$

$$(b) \quad 2 \begin{pmatrix} -1 \\ 2 \end{pmatrix} = \begin{pmatrix} -2 \\ 4 \end{pmatrix}$$

$$(c) \begin{pmatrix} 3 & -1 \\ 1 & 2 \end{pmatrix} \begin{pmatrix} -1 \\ 2 \end{pmatrix} = \begin{pmatrix} -5 \\ 3 \end{pmatrix}$$

$$(d) \begin{pmatrix} 3 & -1 \end{pmatrix} \begin{pmatrix} 0 \end{pmatrix} = \begin{pmatrix} -1 \end{pmatrix}$$

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

(e) $\begin{pmatrix} 3 & -1 \\ 1 & 2 \end{pmatrix} \begin{pmatrix} -1 & 0 \\ 2 & 1 \end{pmatrix} = \begin{pmatrix} -5 & -1 \\ 3 & 2 \end{pmatrix}$

(f) $\begin{pmatrix} -1 & 0 \\ 2 & 1 \end{pmatrix}^T \begin{pmatrix} 3 & -1 \\ 1 & 2 \end{pmatrix}^T = \begin{pmatrix} -5 & 3 \\ -1 & 2 \end{pmatrix}$

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i Answers are displayed within the problem

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