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 [Course](#) / [Exam 2](#) / [E2.2 Sample Exam 2](#)



< Previous













Next >

E2.2.3 Sample Exam Answers and Videos Questions 3-4

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E2.2.3 Sample Exam Answers and Videos Questions 3-4

3. Compute

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

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

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

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

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

(f) Which of the three algorithms for computing $C := AB$ do parts (c)-(e) illustrate?
(Circle the correct one.)

- Matrix-matrix multiplication by columns.
- Matrix-matrix multiplication by rows.
- Matrix-matrix multiplication via rank-1 updates.

ANSWER:

NOTE:

In the PDF for the answer as well as in the video, a "-1" in Part (2) should equal a "-2". All the calculations are performed as if it is actually a "-2".

[PDF of Answer](#)

Question 3: Video



▶ 0:00 / 0:00

▶ 2.0x

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4. Compute

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

(b) $3 \begin{pmatrix} 1 \\ 0 \\ 2 \end{pmatrix} =$

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

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

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

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

- (g) Which of the three algorithms for computing $C := AB$ do parts (d)-(f) illustrate? (Circle the correct one.)
- Matrix-matrix multiplication by columns.
 - Matrix-matrix multiplication by rows.
 - Matrix-matrix multiplication via rank-1 updates.

ANSWER:

[PDF of Answer](#)

Question 4: Video

▶

Calculator

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Calculator



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