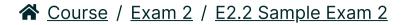


<u>Help</u> 🗘

sandipan\_dey 🗸

Next >

<u>Course</u> <u>Progress</u> <u>Dates</u> <u>Discussion</u> <u>Syllabus</u> <u>Outline</u> <u>laff routines</u> <u>Community</u>





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

☐ Bookmark this page

Previous

# 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.

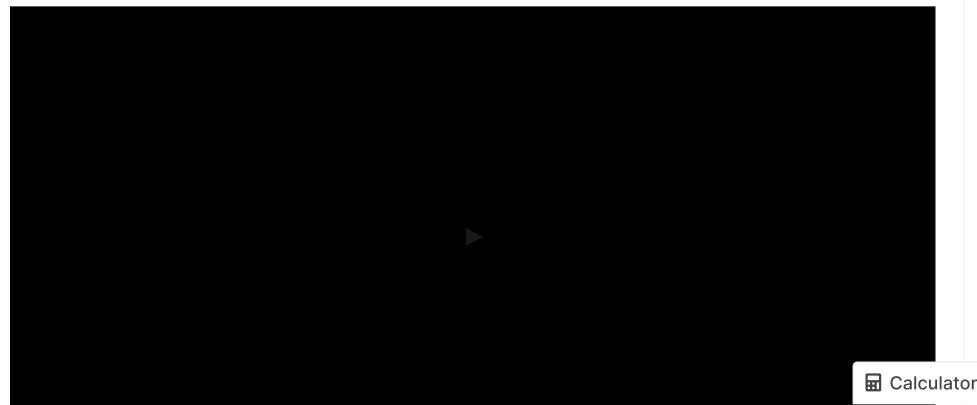
#### ANSWER:

### 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

**4**沙

X

CC

66

#### **Video**

**▲** Download video file

#### **Transcripts**

- ▲ Download SubRip (.srt) file
- 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) 
$$\begin{pmatrix} -3\\0\\1 \end{pmatrix}$$
  $\begin{pmatrix} 1\\-2\\-1 \end{pmatrix}$  =

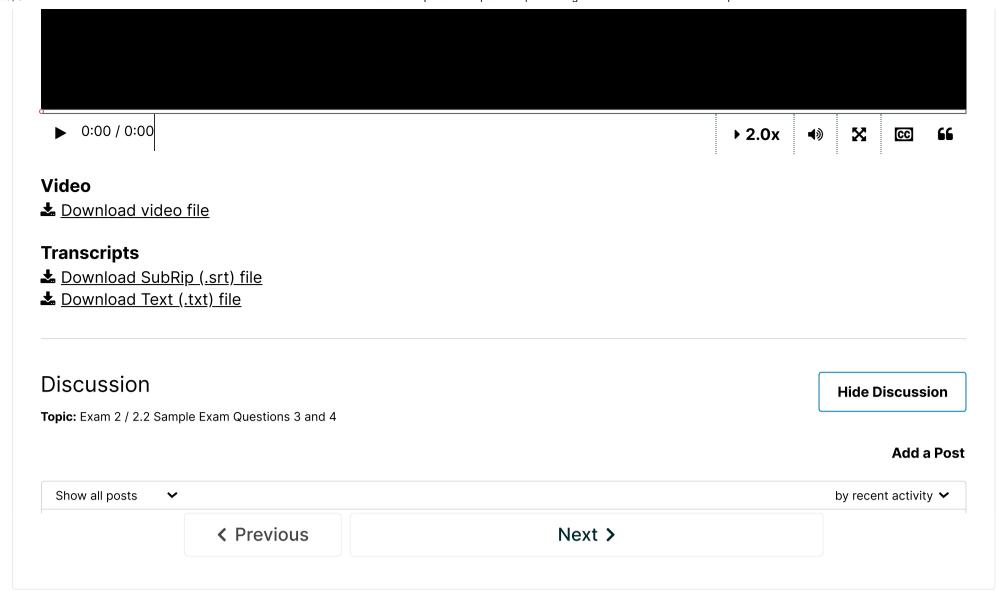
(f) 
$$\begin{pmatrix} 1 & -3 \\ 0 & 0 \\ 2 & 1 \end{pmatrix} \begin{pmatrix} 2 & 3 & -1 \\ 1 & -2 & -1 \end{pmatrix} =$$

- (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**



© All Rights Reserved



### edX

**About** 

**Affiliates** 

edX for Business

Open edX

Careers

**News** 

## Legal

Terms of Service & Honor Code

Privacy Policy

**Accessibility Policy** 

<u>Trademark Policy</u>

<u>Sitemap</u>

**Cookie Policy** 

**Your Privacy Choices** 

## **Connect**

Idea Hub

Contact Us

Help Center

**Security** 

**Media Kit** 















© 2023 edX LLC. All rights reserved.

深圳市恒宇博科技有限公司 <u>粤ICP备17044299号-2</u>