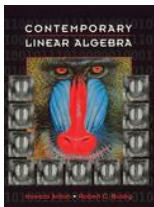


Chapter 4 , Section 1 of *Contemporary Linear Algebra* by Anton and Busby



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1. Find the determinant of

$$\begin{pmatrix} 2 & 2 & 1 \\ 1 & 2 & -2 \\ 1 & 2 & 2 \end{pmatrix}$$

- ▶ A 2
- ▶ B 4
- ▶ C 6
- ▶ D 8
- ▶ E 10

Next Question

2. Find the (2, 1)-cofactor of

$$\begin{pmatrix} 1 & -4 & 5 \\ 3 & 6 & -2 \\ 11 & 9 & -1 \end{pmatrix}$$

- ▶ A -123
- ▶ B -41
- ▶ C 0
- ▶ D 41
- ▶ E 123

Next Question

3. What is the maximum number of entries equal to 5 that a 3×3 matrix can have if it is to have non-zero determinant?

- ▶ A 5
- ▶ B 6
- ▶ C 7
- ▶ D 8
- ▶ E 9

Next Question

4. Find the determinant of the matrix $I + tA + tA^T$, where

$$A = \begin{pmatrix} 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{pmatrix}$$

- ▶ A 1
- ▶ B $1 - 3t^2 + t^4$
- ▶ C 0
- ▶ D $1 + 3t + 3t^2$
- ▶ E $t^4 - 1$

Next Question

5. Find all values of a such that

$$\begin{vmatrix} 2a & 2 & 3 \\ 1 & 2 & -1 \\ 5 & -a & 9 \end{vmatrix} = 0.$$

- ▶ A $-2, 2$
- ▶ B $33/2, 19$
- ▶ C 0
- ▶ D $1 - \sqrt{5}, 1 + \sqrt{5}$
- ▶ E $2, 29/2$

No more questions



RIGHT!

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Wrong...try again

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