Not yet answered

Marked out of 2.00

₹ Flag question

One of the following is always true

- A) Let A and B be square matrices of same size, if B is skew symmetric, then tr(A+B)=tr(A)
- B) For any square matrix A, the matrix $A^TA AA^T$ is skew symmetric
- C) If A is square matrix such that tr(A)=0, then A is skew symmetric
- D) If the matrices AB and BA are defined, then both A and B must be square matrices
- 0 A
- B
- 0
- (E

Question 2 Not yet answered

Marked out of P Flag

2.00

question

matrix C results from B by multiplying the first row of B by 4, then $C = E_2 E_1 A$ where

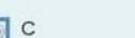
C) $E_1 = \begin{bmatrix} 1 & 0 \\ 3 & 1 \end{bmatrix}$, $E_2 = \begin{bmatrix} 4 & 0 \\ 0 & 1 \end{bmatrix}$

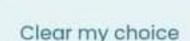
D) $E_1 = \begin{bmatrix} 1 & 3 \\ 0 & 1 \end{bmatrix}$, $E_2 = \begin{bmatrix} 1 & 0 \\ 0 & 4 \end{bmatrix}$





A) $E_1 = \begin{bmatrix} 4 & 0 \\ 0 & 1 \end{bmatrix}$, $E_2 = \begin{bmatrix} 1 & 0 \\ 3 & 1 \end{bmatrix}$ **B)** $E_1 = \begin{bmatrix} 1 & 0 \\ 0 & 4 \end{bmatrix}$, $E_2 = \begin{bmatrix} 1 & 3 \\ 0 & 1 \end{bmatrix}$





Time left 0:25:17

Not yet

Question 3

answered

Marked out of

2.00 P Flag question x + 2y - 2z + w = 0. x + 2y - z + 3w = 0,

The solution of the system:

x + 2y + z + 7w = 0.

A) (5t + 3s, -2s, t, s) where s and t are any real numbers

B) (-2t-5s, t, -2s, s) where s and t are any real numbers

C) The system has only the trivial solution

D) (-7t, 0, -2t, t) where t is any real number

0 A

is:

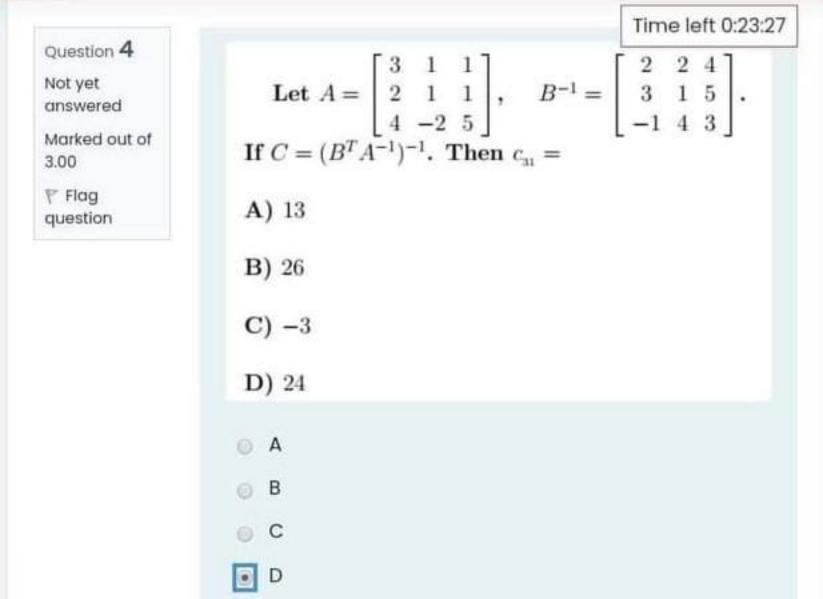
B







Clear my choice



Not yet answered

Marked out of

2.00 P Flag question

Question 5

 $x + y + 2z = b_1$ $x + 2y + 3z = b_2$

 $2x + y + 3z = b_3$.

The system has infinitely many solutions if:

A) $b_1 - 3b_2 + b_3 = 0$

B) $b_1 + b_2 - 3b_3 = 0$

Consider the following system:

C) $3b_1 - b_2 - b_3 \neq 0$

D) $3b_1 - b_2 - b_3 = 0$

A





Not yet answered

Marked out of 2.00

₹ Flag question One of the following is always true

- A) If A is upper triangular matrix, then $A^T A$ is symmetric matrix
- B) If A is square singular matrix, then the system Ax = b, has no solution
- C) If A+B is symmetric matrix, then both A and B are symmetric matrices
- D) If A is skew symmetric matrix, then A⁻¹ is skew symmetric matrix
- A
- B
- 9 0
- 9 E

Not yet answered

Marked out of 2.00

P Flag question

A) 38

Let $A^{-1} = \begin{bmatrix} 2 & 1 & 3 \\ -5 & 1 & 4 \\ 1 & 3 & 6 \end{bmatrix}$. If $BA = \begin{bmatrix} 1 & 2 & 1 \\ 2 & 2 & 1 \\ 4 & 5 & 2 \end{bmatrix}$. Then $b_{32} = \begin{bmatrix} 1 & 2 & 1 \\ 2 & 2 & 1 \\ 4 & 5 & 2 \end{bmatrix}$.

B) 15

C) 20

D) 6



B





0 D

Not yet answered

Marked out of 2.00

P Flag question

Consider the following system: x + 2y + 2z = -8

2x + 3y + 17z = -16 $x + y + (k^2 - 1)z = 2k$.

Then the system is inconsistent if:

A) k = -4

B) k = 4

C) $k \neq \mp 4$

D) $k \neq 4$



Time left 0:05:48

Question 9 Not yet answered Marked out of 3.00

question

P Flag

A) $\frac{1}{3}$

B) $\frac{-1}{3}$

C) 2 D) $\frac{-1}{7}$

@ A







If $(A^{-1} + 2I)^T = \begin{bmatrix} 4 & 6 \\ 1 & 2 \end{bmatrix}$. Then $a_{22} =$









