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Unit 3 - Week 1

Course outline

How does an NPTEL online course work?

Week 0 - Welcome to the course!

Week 1

- Lecture 1 : Introduction I (unit? unit=16&lesson=17)
- Lecture 2 : Introduction II (unit? unit=16&lesson=18)
- Lecture 3 : Introduction III (unit? unit=16&lesson=19)
- Lecture 4 : Systems of Linear Equations I (unit? unit=16&lesson=20)

Assignment 1 - Objective

The due date for submitting this assignment has passed. **Due on 2020-03-04, 23:59 IST.**
As per our records you have not submitted this assignment.

1) Let A be an invertible matrix. Then

0 points

- $\det A = 0$
- $\det A \neq 0$
- $\det A > 0$
- $\det A < 0$

No, the answer is incorrect.

Score: 0

Accepted Answers:

$\det A \neq 0$

2) Consider the matrix $A(x) = \begin{bmatrix} x^2 + 2 & x \\ 3 & 1 \end{bmatrix}$.

1 point

Then the values of $x \in \mathbb{R}$ for which $A(x)$ is invertible is

- $x \in \mathbb{R}$
- $x \in \mathbb{R}, x \neq 0$
- $x \in \mathbb{R}, x > 2$

Lecture 5 :
Systems of
Linear
Equations II
(unit?
unit=16&lesson=21)

Lecture 6 :
Systems of
Linear
Equations III
(unit?
unit=16&lesson=22)

Quiz :
**Assignment 1 -
Objective
(assessment?
name=67)**

Assignment 1 -
Subjective
(/noc20_ma08/subjective?
name=68)

Weekly
Feedback (unit?
unit=16&lesson=74)

Download
Videos (unit?
unit=16&lesson=82)

Assignment 1 -
Subjective:
Solutions (unit?
unit=16&lesson=98)

New Lesson
(unit?
unit=16&lesson=102)

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

$x \in \mathbb{R}, x \neq 1, 2$

No, the answer is incorrect.
Score: 0

Accepted Answers:
 $x \in \mathbb{R}, x \neq 1, 2$

3) State whether True or False.
The REF of any matrix is unique.

True
 False

No, the answer is incorrect.
Score: 0

Accepted Answers:
False

4) Let A be an $n \times n$ matrix. Then

$\det A = \det A^T$
 $\det A$ need not be equal to $\det A^T$

No, the answer is incorrect.
Score: 0

Accepted Answers:
 $\det A = \det A^T$

5) Let A be an $n \times n$ matrix such that $|A_{i,j}| \leq 1$, for all $i, j \in \{1, \dots, n\}$.

$|\det A| \leq 1$
 $\det A > 0$
 $|\det A| > 1$
 None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
None of the above

1 point

1 point

1 point

