Unit 1 - How to access the portal

Week 0 Assessment

The due date for submitting this assignment has passed.

Due on 2018-01-21, 23:59 IST.

Submitted assignment

1) Every Hermitian matrix can be expressed as $A + iB$, where $A$ and $B$ are real then

- A is symmetric, $B$ is skew - symmetric

2) The algebraic and geometric multiplicities of the eigen value $\lambda = 2$ of the matrix $B = \begin{pmatrix} 3 & -1 & 1 \\ 7 & -5 & 1 \\ 6 & -6 & 2 \end{pmatrix}$ are given

- 1, 1
- 2, 1
- 2, 2
- 3, 3

No, the answer is incorrect.
Score: 0
Accepted Answers:
A is symmetric, $B$ is skew - symmetric

3) Let $A = \begin{pmatrix} 1 & -2 & 5 & -3 \\ 2 & 3 & 1 & -4 \\ 3 & 8 & -3 & -5 \end{pmatrix}$ Then the dimension of the row space of $A$ is

- 1
- 2
- 3
- 4

No, the answer is incorrect.
Score: 0
Accepted Answers: 2, 1

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Thursday 17 May 2018 12:55 PM
4) Consider a machine with five digit decimal system. Then chopped machine representation and the rounded $n$ representation of $x = 12.987637895$ are given by

- 12.988, 12.987
- 12.987, 12.988
- 12.98763, 12.98763
- 12.98763, 12.98764

No, the answer is incorrect.

Score: 0
Accepted Answers: 12.987, 12.988

5) Let $x = 98, 350$ and $x^* = 98, 000$. Then the number of significant digits by which $x^*$ approximates $x$ is

- 1
- 2
- 3
- 4

No, the answer is incorrect.

Score: 0
Accepted Answers: 1