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Courses » **Computer Aided Power System Analysis**

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Unit 7 - Week 6

**Register for
Certification exam**

Course outline

How to access the portal

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

- Sparsity and Gaussian Elimination
- Gaussian Elimination Method
- Example of Gaussian Elimination Method
- Gaussian Elimination and Optimal Ordering
- Triangular Factorization
- Quiz : Assignment 6

Assignment 6

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.   **Due on 2019-03-13, 23:59 IST.**

1) Solve the following set of equations using Gauss-Elimination method: **6 points**

$9x_1 + 3x_2 + 4x_3 = 7$
$4x_1 + 3x_2 + 4x_3 = 8$
$x_1 + x_2 + x_3 = 3$

○

$x_1 = -\dfrac{1}{5}; \; x_2 = 4; \; x_3 = -\dfrac{4}{5}$

○

$x_1 = -\dfrac{1}{5}; \; x_2 = 4; \; x_3 = -\dfrac{2}{5}$

○

$x_1 = -\dfrac{2}{5}; \; x_2 = 4; \; x_3 = -\dfrac{4}{5}$

○

$x_1 = -\dfrac{1}{5}; \; x_2 = 3; \; x_3 = -\dfrac{4}{5}$

No, the answer is incorrect.
Score: 0

Accepted Answers:
$x_1 = -\dfrac{1}{5}; \; x_2 = 4; \; x_3 = -\dfrac{4}{5}$

2) The solution set of the following set of equations is :   **4 points**

$x_1 + x_2 - 3x_3 = 4$
$2x_1 + x_2 - x_3 = 2$
$3x_1 + 2x_2 - 4x_3 = 7$

○

$x_1 = -1; \; x_2 = 2; \; x_3 = 5$

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Week 10	ce De	**Score: 0**
Week 11		**Accepted Answers:**
Week 12		*It has no solution*
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