Spring 2021: Chapter 4: Part 1. Intro and Gauss Elimination

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1. A square matrix [A] is upper triangular if

○ $a_{ij} = 0, \; i > j$

○ $a_{ij} = 0, \; j > i$

○ $a_{ij} \neq 0, \; i > j$

○ $a_{ij} \neq 0, \; j > i$

2. The following system of equations
x+y=2
6x+6y=12
has _____ solution(s).

○ no

○ one

○ more than one but a finite number of

○ infinite

3. There are two steps in Naive Gaussian Elimination - forward elimination and back substitution. If we are solving n equations for n unknowns, how many steps are in the forward elimination part.

- ○ n
- ○ n-1
- ○ n+1

4. Using 3 significant digits with chopping at all stages, the result for the following calculation is

$$x_1 = (6.095 - 3.456 \times 1.99) \div 8$$

- ○ −0.0988
- ○ −0.0978
- ○ −0.0969
- ○ −0.0962

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