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**Problem Set 5**

Question 1: Solve the following System of linear equations using Gaussian Elimination Method:

$$b - c + d - e = 1$$

$$-2a + c - e = 0$$

$$-b + c + 2d - 10e = 12$$

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Question 2: Solve the following System of linear equations using Cramer's Rule:

$$X_1 + X_2 + X_3 = 10$$

$$-X_1 - 2X_2 + 4X_3 = 2$$

$$-2X_1 - 2X_2 - X_3 = 12$$

Question 3: Solve the following System of linear equations using Gaussian Elimination Method with partial pivoting:

**Part A:**

$$1.01X_1 + 0.99X_2 = 2$$

$$0.99X_1 + 1.01X_2 = 2$$

**Part B:**

$$1.01X_1 + 0.99X_2 = 1.98$$

$$0.99X_1 + 1.01X_2 = 2.02$$

**GOOD LUCK!**

**STUDY + LEARN + SOLVE QUIZ 5 = PASS QUIZ 5**

Best Regards

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