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:
   
   \[
   \begin{align*}
   9x_1 + 3x_2 + 4x_3 &= 7 \\
   4x_1 + 3x_2 + 4x_3 &= 8 \\
   x_1 + x_2 + x_3 &= 3
   \end{align*}
   \]

   \[
   x_1 = -\frac{1}{5}; \quad x_2 = 4; \quad x_3 = -\frac{4}{5}
   \]

   \[
   x_1 = -\frac{1}{5}; \quad x_2 = 4; \quad x_3 = -\frac{4}{5}
   \]

   \[
   x_1 = -\frac{2}{5}; \quad x_2 = 4; \quad x_3 = -\frac{4}{5}
   \]

   \[
   x_1 = -\frac{1}{5}; \quad x_2 = 3; \quad x_3 = -\frac{4}{5}
   \]

   No, the answer is incorrect.

   Score: 0

   Accepted Answers:

   \[
   x_1 = -\frac{1}{5}; \quad x_2 = 4; \quad x_3 = -\frac{4}{5}
   \]

2) The solution set of the following set of equations is:

   \[
   \begin{align*}
   x_1 + x_2 - 3x_3 &= 4 \\
   2x_1 + x_2 - x_3 &= 2 \\
   3x_1 + 2x_2 - 4x_3 &= 7
   \end{align*}
   \]

   \[
   x_1 = -1; \quad x_2 = 2; \quad x_3 = 5
   \]