



Quiz #5

Student Name:

Student ID:

1. Use the Gauss-Seidel method to solve the following system to a tolerance of $\epsilon_s = 5\%$. If necessary, rearrange the equations to achieve convergence.

$$10x_1 + 2x_2 - x_3 = 27$$

$$-3x_1 - 6x_2 + 2x_3 = -61.5$$

$$x_1 + x_2 + 5x_3 = -21.5$$



Theoretical Models for Computing

2. Use the Jacobin method to solve the above system to a tolerance of $\epsilon_s = 0.5\%$. If necessary, rearrange the equations to achieve convergence.