

## 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.

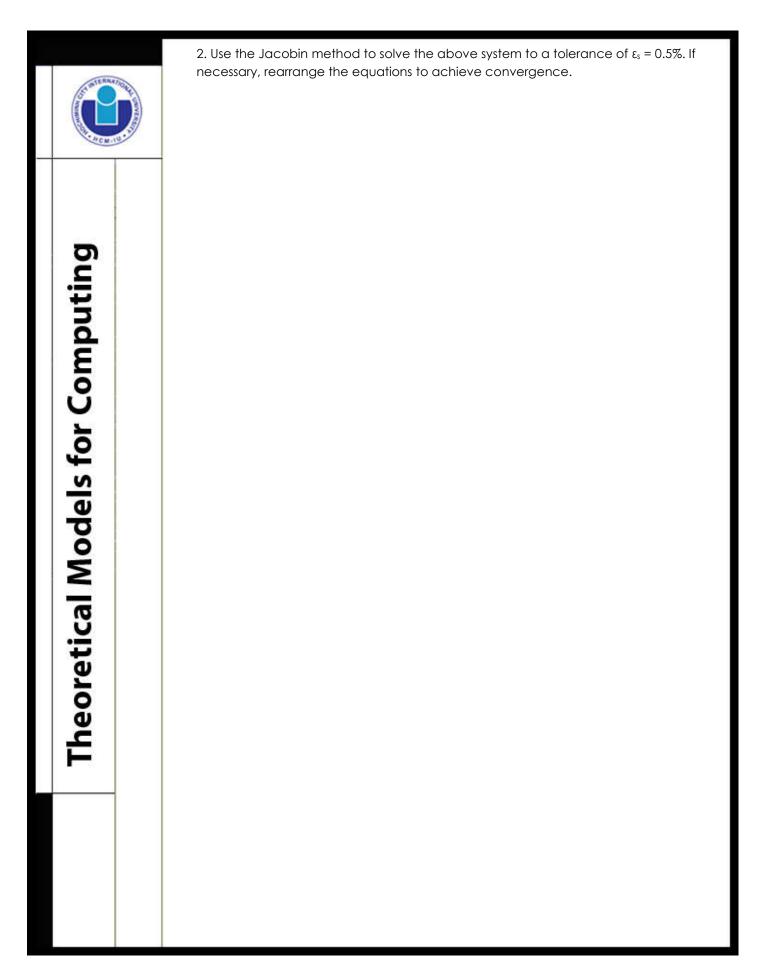
$$10x1 + 2x2 - x3 = 27$$

$$-3x1 - 6x2 + 2x3 = -61.5$$

$$x1 + x2 + 5x3 = -21.5$$

**Theoretical Models for Computing** 

HVUS 1



HVUS 2