Name:	Sort #:	

## Worksheet 20 Numerical Linear Algebra

MATH 2250, Fall 2018

1. Find the first two iterations of the Jacobi method for the following linear system using  $\vec{x}^{(0)} = \vec{0}$ .

$$3x_1 - x_2 + x_3 = 1$$

$$3x_1 + 6x_2 + 2x_3 = 0$$

$$3x_1 + 3x_2 + 7x_3 = 4$$

 $2. \ \,$  Repeat the first problem using Gauss-Seidel.