

Instructions: Show Your Work!

- (10^{pts}) 1. Solve the system by Gaussian Elimination Method (use elementary row operations to transform the augmented coefficient matrix to echelon form then use back substitution)

$$\begin{array}{rclcl} 3x_1 & +8x_2 & +3x_3 & = & 2 \\ x_1 & +3x_2 & +2x_3 & = & 5 \\ 2x_1 & +7x_2 & +4x_3 & = & 8 \end{array}$$