

Quiz #1

Please show your work and feel free to use the back of the sheet if you need more room.

1 Use Gauss-Jordan reduction to solve the following system of equations for x , y , and z :

$$\begin{array}{rclcl} x & + & y & + & 2z & = & 8, \\ -x & + & y & + & 2z & = & 6, \\ 5x & & & + & z & = & 7. \end{array}$$

2 Compute the inverse of $A = \begin{bmatrix} 5 & 3 \\ 5 & 2 \end{bmatrix}$.