

### Problem 8.3

Write the following set of equations in matrix form:

$$50 = 5x_3 - 7x_2$$

$$4x_2 + 7x_3 + 30 = 0$$

$$x_1 - 7x_3 = 40 - 3x_2 + 5x_1$$

Use MATLAB to solve for the unknowns. In addition, use it to compute the transpose and the inverse of the coefficient matrix.