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Show all work. 5 points each.

1. Solve the system of equations

$$\begin{array}{rcl} x_1 & -3x_3 & = 8 \\ 2x_1 + 2x_2 + 9x_3 & = & 7 \\ & x_2 + 5x_3 & = -2 \end{array}$$

2. Find the general solution of the system whose augmented matrix is

$$\begin{bmatrix} 1 & 3 & 4 & 7 \\ 3 & 9 & 7 & 6 \end{bmatrix}$$