and the vector form of the general polution the given linear system [Ax = bl; then we that results to find the vector forms of the general solution of [Ax=0] X1+X2+2X3 = 5 $\chi_1 + \chi_3 = -2$ $2x_1 + x_2 + 3x_3 = 3$ $\begin{bmatrix}
 1 & 1 & 2 & 1 & 5 \\
 1 & 0 & 1 & 12 & = -2 \\
 2 & 1 & 3 & 13 & 3
\end{bmatrix}$ 1 1 2 5 R2-R1, R3-2R1