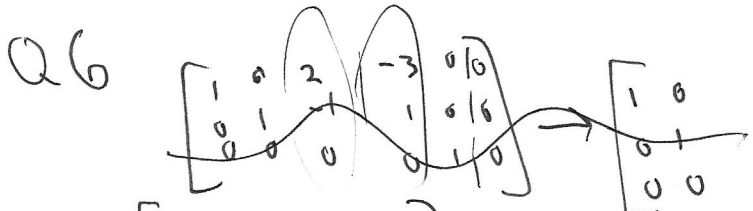
Q6



$$\left[\begin{array}{cccc|c} 1 & 0 & 2 & -3 & 0 \\ 0 & 1 & -1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{array}\right]\left[\begin{array}{c} x_1 \\ x_2 \\ x_3 \end{array}\right] = \left[\begin{array}{c} 0 \\ 0 \\ 0 \end{array}\right] \rightarrow \left[\begin{array}{c} x_1 \\ x_2 \\ x_3 \end{array}\right] = \left[\begin{array}{cccc|c} 1 & 0 & 2 & -3 & 0 \\ 0 & 1 & -1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{array}\right]$$

$x_3 = t$

$x_4 = s$

$x_5 = 0$

$x_1 = 3s - 2t$

$x_2 = t - s$

$$\therefore \left[\begin{array}{c} 3s-2t \\ t-s \\ t \end{array}\right] = t\left[\begin{array}{c} -2 \\ 1 \\ 1 \end{array}\right] + s\left[\begin{array}{c} 3 \\ -1 \\ 0 \end{array}\right]$$