Q6	
Thursday	y, October 29, 2020 8:31 AM
	a) $\begin{bmatrix} 1 & 0 & 0 \\ -1 & +1 & 0 \\ 1 & -1 & 1 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = \begin{bmatrix} x_1 \\ -x_1 + x_2 \\ x_1 - x_2 + x_3 \end{bmatrix} = \begin{bmatrix} b_1 \\ b_2 \\ b_3 \end{bmatrix}$
	$\left(\begin{array}{c c} & & & \\ & & & \\ & & & \\ \end{array}\right)$ $\left(\begin{array}{c c} \times_1 & -\times_2 & +\times_3 \\ \end{array}\right)$ $\left(\begin{array}{c c} b_3 \\ \end{array}\right)$
	$\int x_1 = b_1$
	-61 + Xz = 67
	x2 - b2 +b1
	$b_1 - (b_2 + b_1) + x_3 = b_3$
	bx-b2-b1 2 x3 = 63
	X3 2 63 6 62
	:. [X1: b1 /X2: b1+b2, x3: b2+b5]
b	$B\begin{bmatrix}b_1\\b_2\\b_3\end{bmatrix} = \begin{bmatrix}b_1\\b_1+b_3\\b_2+b_3\end{bmatrix}$
	(b3) (b2+b3)
	$B \begin{pmatrix} 6 \\ 0 \end{pmatrix} : \begin{pmatrix} 1 \\ 0 \end{pmatrix} \qquad \begin{bmatrix} 1 \\ 0 \end{bmatrix} $
	$B\begin{bmatrix} 0 \\ 0 \end{bmatrix} = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$ $\begin{bmatrix} 1 \\ 0 \\ 0 \end{bmatrix} \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$
	$B\begin{bmatrix} 0 \\ 0 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \end{bmatrix} \begin{bmatrix} 1 \\ 0 \end{bmatrix} \begin{bmatrix}$
	$B\left(\begin{array}{c} 0 \\ \vdots \\ 0 \end{array}\right) = \left(\begin{array}{c} 0 \\ 0 \\ \end{array}\right)$