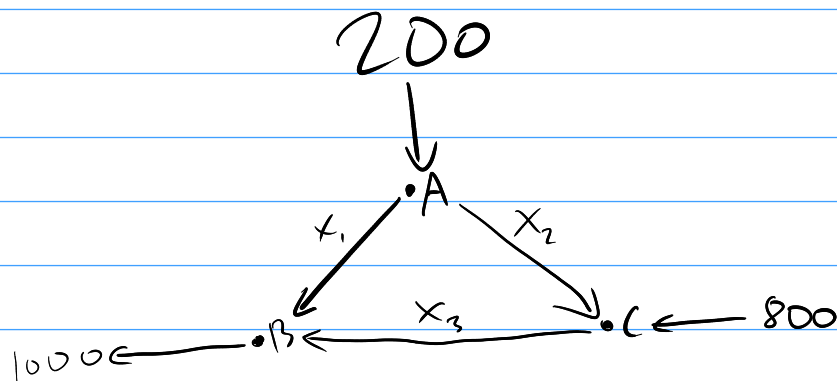


# 1.6 Quiz Question 2



A:  $200 = x_1 + x_2 \rightarrow x_1 + x_2 = 200$

B:  $x_3 + x_1 = 1000 \rightarrow x_1 + x_3 = 1000$

C:  $x_2 + 800 = x_3 \rightarrow x_2 - x_3 = 800$

a) 
$$\begin{bmatrix} 1 & 1 & 0 & 200 \\ 1 & 0 & 1 & 1000 \\ 0 & 1 & -1 & 800 \end{bmatrix}$$

b) 
$$\begin{bmatrix} 1 & 1 & 0 & 200 \\ 1 & 0 & 1 & 1000 \\ 0 & 1 & -1 & 800 \end{bmatrix} \xrightarrow{R_2 = R_2 - R_1} \begin{bmatrix} 1 & 1 & 0 & 200 \\ 0 & -1 & 1 & 800 \\ 0 & 1 & -1 & 800 \end{bmatrix} \xrightarrow{R_3 = R_3 + R_2} \begin{bmatrix} 1 & 1 & 0 & 200 \\ 0 & -1 & 1 & 800 \\ 0 & 0 & 0 & 1600 \end{bmatrix}$$

No Solution!

$\nearrow$   
 $0 = 1600$   
 $\times$