

QPPGVC 8)

	Inn = u+	X_n På Venstre Side
A	$X_6 = X_1 + 150$	$X_6 - X_1 = 150$
B	$X_1 + 200 = X_2$	$X_1 - X_2 = -200$
C	$X_2 = X_3 + 250$	$X_2 - X_3 = 250$
D	$X_2 + 220 = X_4$	$X_3 - X_4 = -220$
E	$X_4 = X_5 + 120$	$X_4 - X_5 = 120$
F	$X_5 + 100 = X_6$	$X_5 - X_6 = -100$

Matrice

$$\begin{bmatrix} -1 & 0 & 0 & 0 & 0 & 150 \\ 1 & -1 & 0 & 0 & 0 & -200 \\ 0 & 1 & -1 & 0 & 0 & 250 \\ 0 & 0 & 1 & -1 & 0 & -220 \\ 0 & 0 & 0 & 1 & -1 & 120 \\ 0 & 0 & 0 & 0 & 1 & -100 \end{bmatrix} \sim \begin{bmatrix} 1 & 0 & 0 & 0 & -1 & -150 \\ 0 & 1 & 0 & 0 & -1 & 50 \\ 0 & 0 & 1 & 0 & -1 & -200 \\ 0 & 0 & 0 & 1 & 0 & 20 \\ 0 & 0 & 0 & 0 & 1 & -100 \\ 0 & 0 & 0 & 0 & 0 & 0 \end{bmatrix}$$

$\Rightarrow X_6$ is free, we need every X to be Positive
 So we look at largest negative number where X_6 is in consideration $X_3 = X_6 - 200$, so X_6 must be ≥ 200 , $X_6 \geq 200$

From node A: $X_6 = X_1 + 150$

$$X_1 = X_6 - 150$$

$$X_1 = 200 - 150$$

$$X_1 \geq 50$$

X_1 must be Lowest Possible X_1 is 50