$B = \begin{bmatrix} 2 & 3 \\ 2 & 5 \end{bmatrix}$, 则基变量为 x_2, x_4

$N = \begin{bmatrix} 2 & 3 \\ 3 & 4 \end{bmatrix}$　　$C_B = (4, 8)$　　$C_N = (5, 7)$

$B^{-1} = \begin{bmatrix} \frac{5}{4} & -\frac{3}{4} \\ -\frac{1}{2} & \frac{1}{2} \end{bmatrix}$　　$\pi = C_B B^{-1} = (1, 1)$ ②

$\pi b = (1, 1) \binom{20}{30} = 50$　　$B^{-1} b = (\frac{5}{2}, 5) = (x_4, x_2)$ ①

$\overline{N} = B^{-1} N = \begin{pmatrix} \frac{5}{4} & -\frac{3}{4} \\ \frac{1}{2} & \frac{1}{2} \end{pmatrix} \begin{pmatrix} 2 & 3 \\ 3 & 4 \end{pmatrix} = \begin{pmatrix} \frac{1}{4} & \frac{3}{4} \\ \frac{1}{2} & \frac{1}{2} \end{pmatrix}$　　$\overline{N}_1 = \begin{pmatrix} \frac{1}{4} \\ \frac{1}{2} \end{pmatrix}$　　$\overline{N}_3 = \begin{pmatrix} \frac{3}{4} \\ \frac{1}{2} \end{pmatrix}$ ③

$\lambda_N = C_N - C_B B^{-1} N = (5, 7) - \pi \begin{pmatrix} 2 & 3 \\ 3 & 4 \end{pmatrix} = (0, 0)$