$$7 = 2x_1 + x_2$$

$$A = \begin{pmatrix} 1 & 2 \\ 3 & 1 \\ 1 & 1 \end{pmatrix}$$

$$b' = \begin{pmatrix} 10 \\ 5 \\ 2 \end{pmatrix}$$

$$y_{x2} = B^{-1}a_{x2} = \begin{pmatrix} 1 & 0 & -1 \\ 0 & 1 & -3 \\ 0 & 0 & 1 \end{pmatrix} \begin{pmatrix} 2 \\ 1 \\ 1 \end{pmatrix} = \begin{pmatrix} 1 \\ -2 \\ 1 \end{pmatrix} \implies JE = X_2$$

$$Y_{h3} = D^{-1} a_{h3} = \begin{pmatrix} 1 & 0 & -1 \\ 0 & 1 & -3 \\ 0 & 0 & 1 \end{pmatrix} \begin{pmatrix} 0 \\ 0 \\ 1 \end{pmatrix} = \begin{pmatrix} -1 \\ -3 \\ 1 \end{pmatrix}$$

$$\frac{VB}{h_{1}} \frac{B_{-1}}{1 - 4} \frac{X_{0}}{h_{2}} = \begin{pmatrix} c_{9}^{\dagger} B^{-1} & (0, 1, 2) \end{pmatrix} \end{pmatrix} \end{pmatrix} \end{pmatrix} \end{pmatrix}$$

$$X_{B} = B^{1}b^{1} = \begin{pmatrix} 0 - h & 3h \\ 0 & 12h \end{pmatrix} \begin{pmatrix} s \\ 2 \end{pmatrix} = \begin{pmatrix} 12 \\ 12 \\ 14 \end{pmatrix}$$

$$C_{B}^{+}=(0,1,2)$$
 $Z=c_{0}^{+}X_{B}=(0,1,2)\begin{pmatrix} 1/2\\ 1/2\\ 1/2 \end{pmatrix}=12-75$

$$B_{a}^{-1} = \begin{pmatrix} 1 & 0 & -1 \\ 0 & 1 & -3 \\ 0 & 0 & 1 \end{pmatrix} \begin{pmatrix} 0 & (2) = (0 & -1/2 & -3/2) \\ 0 & (1 & -3/2) & (0 & 1/2 & -3/2) \\ 0 & (1 & 1/2 & -3/2) & (0 & 1/2 & 1/2) \end{pmatrix} B_{3}^{-1} = \begin{pmatrix} 1 & 1/2 & 3/2 \\ 0 & 1/2 & 3/2 \\ 0 & 1/2 & 3/2 \end{pmatrix}$$

$$B_{a}^{-1} = \begin{pmatrix} 1 & 0 & -1/2 & -1/2 \\ 0 & 1/2 & -1/2 & -1/2 \\ 0 & 1/2 & 1/2 \end{pmatrix} B_{3}^{-1} = \begin{pmatrix} 1 & 1/2 & 3/2 \\ 0 & 1/2 & 3/2 \\ 0 & 1/2 & 3/2 \end{pmatrix}$$

$$B_{3}^{-1} = \begin{pmatrix} 1 & 0 & -1/2 & -1/2 \\ 0 & 1/2 & -1/2 & -1/2 \\ 0 & 1/2 & 1/2 \end{pmatrix} B_{3}^{-1} = \begin{pmatrix} 1 & 1/2 & 3/2 \\ 0 & 1/2 & 3/2 \\ 0 & 1/2 & 3/2 \end{pmatrix}$$

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$$B_{3}$$