

$$\begin{bmatrix} 1 & 3 \\ 4 & 0 \\ 2 & 1 \end{bmatrix} \times \begin{bmatrix} 1 \\ 5 \end{bmatrix}$$

$$h_0(n) = -40 + \frac{n}{4}$$

$$\begin{bmatrix} 1 & 2104 \\ 1 & 1416 \\ 1 & 1534 \\ 1 & 852 \end{bmatrix}$$

$$\begin{bmatrix} -40 \\ 0.25 \end{bmatrix}$$

$$\begin{bmatrix} 16 \\ 4 \\ 7 \end{bmatrix}$$

$$\begin{array}{r} 526 \\ -40 \\ \hline 486 \\ 426 \\ 1213 \end{array}$$

$$\begin{array}{r} -40 + 526 = \\ 486 \\ 767 \quad 708 \\ 383.5 \quad 354 \end{array}$$

$$\begin{bmatrix} 486 \\ 314 \\ 384.5 \\ 173 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 2 & 1 & 5 \\ 0 & 3 & 0 & 4 \\ -1 & -2 & 0 & 0 \end{bmatrix} \begin{bmatrix} 1 \\ 3 \\ 2 \\ 1 \end{bmatrix} = \begin{bmatrix} 14 \\ 13 \\ -7 \end{bmatrix}$$

$$\begin{array}{l} 1 + 6 + 2 + 5 \\ 0 + 9 + 0 + 4 \\ -1 - 6 + 0 + 0 \end{array}$$

$$y = ax + b$$

$$Y = XP$$

$$Y = \begin{bmatrix} y_1 \\ y_2 \\ y_3 \end{bmatrix}$$

$$X = \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} \quad P = \begin{bmatrix} a \\ b \end{bmatrix}$$

$$h_0(n) = -40 + 0.25n$$

$$y = -40 + \frac{n}{4}$$

$$\frac{n}{4} + y = 40$$

$$X = \begin{bmatrix} n \end{bmatrix}$$

$$B = \begin{bmatrix} 40 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 3 & 2 \\ 4 & 0 & 1 \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ 5 \end{bmatrix} = \begin{bmatrix} 11 \\ 9 \end{bmatrix}$$

$$\begin{array}{l} 1 + 0 + 10 = 11 \quad 3 + 3 + 4 \\ 4 + 0 + 5 = 9 \quad 12 + 0 + 2 \end{array}$$