

$$\begin{bmatrix} 9 & 7 & 6 & 5 \\ 8 & 3 & 2 & 1 \\ 9 & 11 & 12 & 13 \\ 1 & 3 & 5 & 9 \end{bmatrix} \quad \begin{bmatrix} 3 \\ 2 \\ 9 \\ 4 \end{bmatrix}$$

$$9(3) + 7(2) + 6(9) + 5(4) = 115$$

$$8(3) + 3(2) + 2(9) + 1(4) = 52$$

$$9(3) + 11(2) + 12(9) + 13(4) = 209$$

$$1(3) + 3(2) + 5(9) + 9(4) = 90$$

$$\begin{bmatrix} 115 \\ 52 \\ 209 \\ 90 \end{bmatrix}$$