QUESTION 1

$$D = \begin{bmatrix} 17 & 17 \\ 11 & 9 \\ 11 & 8 \end{bmatrix}$$

$$\bar{D} = \begin{bmatrix} 17 & 17 \\ 11 & 9 \\ 11 & 8 \end{bmatrix} - \begin{bmatrix} 1 \\ 1 \\ 1 \end{bmatrix} \begin{bmatrix} 13 & \dfrac{34}{3} \end{bmatrix}$$

$$\bar{D} = \begin{bmatrix} 17 & 17 \\ 11 & 9 \\ 11 & 8 \end{bmatrix} - \begin{bmatrix} 13 & 34/3 \\ 13 & 34/3 \\ 13 & 34/3 \end{bmatrix}$$

$$\bar{D} = \begin{bmatrix} 4 & 17/3 \\ -2 & -7/3 \\ -2 & -10/3 \end{bmatrix}$$