

QUESTION Evaluate the following determinants:

$$\begin{vmatrix} 2 & 4 & 6 \\ 1 & 3 & 2 \\ -1 & 5 & 7 \end{vmatrix}, \quad \begin{vmatrix} 1 & 7 & 8 \\ -2 & 4 & 3 \\ 1 & 9 & 0 \end{vmatrix}, \quad \begin{vmatrix} 4 & 5 & 6 & 1 \\ 2 & 4 & 0 & 7 \\ 0 & 0 & 1 & 3 \\ 2 & 1 & 0 & 3 \end{vmatrix}.$$

ANSWERS

$$34 \quad -182 \quad 162$$