Inverse of a Matrix

Instructions: For each matrix, calculate the determinant and hence write the inverse. Where there is no inverse, type "none" on the line.

The first one is done for you

1. $A = \begin{pmatrix} 2 & 4 \\ 1 & 3 \end{pmatrix}$ Det A = 2 $A^{-1} = \frac{1}{2}\begin{pmatrix} 3 & -4 \\ -1 & 2 \end{pmatrix}$ A^{-1} = _____

2. $B = \begin{pmatrix} 2 & 1 \\ 3 & 2 \end{pmatrix}$ Det B = $B^{-1} = -\begin{pmatrix} & \\ & \end{pmatrix}$ B^{-1} = _____

3. $C = \begin{pmatrix} 6 & 2 \\ 3 & 4 \end{pmatrix}$ Det C = $C^{-1} = -\begin{pmatrix} & \\ & \end{pmatrix}$ C^{-1} = _____

4. $D = \begin{pmatrix} 7 & 2 \\ 14 & 4 \end{pmatrix}$ Det D = $D^{-1} = -\begin{pmatrix} & \\ & \end{pmatrix}$ D^{-1} = _____

5. $E = \begin{pmatrix} 5 & 2 \\ 4 & -3 \end{pmatrix}$ Det E = $E^{-1} = -\begin{pmatrix} & \\ & \end{pmatrix}$ E^{-1} = _____

6. $F = \begin{pmatrix} -9 & -6 \\ -4 & -3 \end{pmatrix}$ Det F = $F^{-1} = -\begin{pmatrix} & \\ & \end{pmatrix}$ F^{-1} = _____

7. $G = \begin{pmatrix} 3 & 4 \\ 6 & 7 \end{pmatrix}$ Det G = $G^{-1} = -\begin{pmatrix} & \\ & \end{pmatrix}$ G^{-1} = _____