

Homework – Determinants and Inverses

Evaluate

$$1) \begin{vmatrix} -4 & 2 \\ 5 & -2 \end{vmatrix}$$

$$2) \begin{vmatrix} 1 & 8 \\ 5 & 9 \end{vmatrix}$$

$$3) \begin{vmatrix} 2 & -7 & 5 \\ 3 & -1 & 4 \\ 0 & 1 & 6 \end{vmatrix}$$

$$4) \begin{vmatrix} 1 & 9 & -2 \\ 1 & 3 & 1 \\ -5 & 0 & -4 \end{vmatrix}$$

Find the inverse of the matrix

$$5) \begin{bmatrix} 0 & -3 \\ 8 & 10 \end{bmatrix}$$

$$6) \begin{bmatrix} 9 & 3 \\ -2 & 1 \end{bmatrix}$$

Multiply

$$7) \begin{bmatrix} 3 & 1 \\ 2 & 5 \end{bmatrix} \begin{bmatrix} -4 & -1 \\ 0 & 8 \end{bmatrix}$$

$$8) \begin{bmatrix} 2 & 3 & 4 \\ 1 & 5 & -2 \end{bmatrix} \begin{bmatrix} 2 & 3 \\ 1 & -4 \\ 0 & -1 \end{bmatrix}$$