Solution (#552)

$$A + D = \begin{pmatrix} 0 & 14 \\ 6 & 3 \end{pmatrix} = D + A, \qquad A^2 = \begin{pmatrix} 1 & 8 \\ 0 & 9 \end{pmatrix}, \qquad AC = \begin{pmatrix} -5 & 4 & 3 \\ -6 & -3 & 0 \end{pmatrix},$$

$$AD = \begin{pmatrix} 11 & 12 \\ 18 & 0 \end{pmatrix}, \qquad BA = \begin{pmatrix} 0 & 3 \\ 3 & 12 \\ 1 & 2 \end{pmatrix}, \qquad BC = \begin{pmatrix} -2 & 1 & 0 \\ -7 & 8 & 9 \\ -1 & 2 & 3 \end{pmatrix}, \qquad BD = \begin{pmatrix} 6 & 0 \\ 9 & 36 \\ -1 & 12 \end{pmatrix},$$

$$CB = \begin{pmatrix} 9 & 3 \\ 3 & 0 \end{pmatrix}, \qquad DA = \begin{pmatrix} -1 & 34 \\ 6 & 12 \end{pmatrix}, \qquad DC = \begin{pmatrix} -23 & 10 & -3 \\ -6 & 12 & 18 \end{pmatrix}, \qquad D^2 = \begin{pmatrix} 73 & -12 \\ -6 & 72 \end{pmatrix}.$$