$$S = \begin{pmatrix} 1 & 4 \\ 2 & 1 \end{pmatrix}$$

$$S = \frac{1}{7} \begin{pmatrix} -1 & 4 \\ 2 & -1 \end{pmatrix}$$

$$D = \begin{pmatrix} 2 & 0 \\ 0 & -3 \end{pmatrix}$$

$$A = \begin{pmatrix} 1 & 4 \\ 2 & 1 \end{pmatrix} \begin{pmatrix} 2 & 0 \\ 0 & -3 \end{pmatrix} + \begin{pmatrix} 2 & -1 \\ 2 & -1 \end{pmatrix} = \begin{pmatrix} 1 & 4 \\ 2 & -1 \end{pmatrix}$$

$$= \begin{pmatrix} 2 & -12 \\ 4 & -3 \end{pmatrix} + \begin{pmatrix} -1 & 4 \\ 2 & -1 \end{pmatrix} =$$

$$=\frac{1}{7}\left(-26 - 19\right)$$