$$\begin{array}{l} AB^T + C^-1? \\ B^T = \\ -2 & 0 \\ 0 & -1 \\ 5 & 4 \\ C^-1 = \\ 1 & 0 \\ 0 & 1/2 \\ AB^T = \\ -17 & -16 \\ 11 & 13 \\ AB^T + C^-1 = \\ -16 & -16 \\ 11 & 13/2 \\ \end{array}$$