Solution (\#583) (i) Write $A$ and $B$ as linear combinations of $A+B$ and $A-B$.
(ii) For the second part we can use

$$
A=\left(\begin{array}{cc}
1 & 1 \\
0 & 1
\end{array}\right) ; \quad B=\left(\begin{array}{cc}
1 & -1 \\
0 & 1
\end{array}\right)
$$

