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homework 6 solutions exercise 1 7 points calculate the following quantities $\sin \ln 2$, $3^3 i$, $2 i$ and $p v$
 $3 i$, $2 i$ solution by the definition of $\sin z$ we have $e^{i \ln 2} = \cos \ln 2 + i \sin \ln 2$ and $e^{-i \ln 2} = \cos \ln 2 - i \sin \ln 2$
 $3 3 2 i 1 1 i 3 1 i 3 1 2 1 i 3 4 1 i 3 2 i 2 2 2 8 i 5 3 3 i 3 5 i 3 8 i 8 8$

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