

ADVANCED MATH EXAM

I. Simplify the following complex numbers. Express results using three decimal places.

$$1) 6i^{158} - \frac{4i^{-129}}{3i^{137} - 5i^{179}} + \frac{\frac{5i^{107} + 2i^{131}}{3i^{152}}}{2i^{-125} - 4i^{-146}}$$

$$2) \sqrt[4]{\frac{\{(7-i) - (4+2i)\}^3}{3.45 \angle 72^\circ + 4.26 e^{3.68i}}}$$

$$3) \ln(2+3i)^{(-2-5i)} + \log_{(-4-2i)}(3+i)$$

$$4) \ln \{ \tan(0.24 + 0.35i) - \coth(0.54 - 0.67i) \}$$

$$5) \arctan(-3+5i)$$

II. Perform the indicated operations on matrices

$$1) 2 \begin{bmatrix} 1 & 3 & -2 \\ -4 & 1 & 1 \\ 3 & -1 & 2 \end{bmatrix} + \begin{bmatrix} -2 & 1 & 3 \\ 1 & -4 & 2 \\ 3 & 1 & -1 \end{bmatrix} - 3 \begin{bmatrix} 4 & -3 & 1 \\ 2 & 1 & 3 \\ -1 & 2 & -1 \end{bmatrix}$$

$$2) \begin{bmatrix} 1 & 3 & -2 \\ -4 & 1 & 1 \\ 3 & -1 & 2 \end{bmatrix} \cdot \begin{bmatrix} 3 & -1 \\ 1 & 2 \\ 4 & 1 \end{bmatrix}$$

Advanced Mathematics

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