

# Complex Variable 作業 5

2006 Fall due Nov.8

Find

(1)  $e^{2+3\pi i}$

(2)  $\log(-1)$

(3)  $\text{Log}(-1)$

(4)  $i^{-2i}$

(5) Is it right  $\overline{\cos(iz)} = \cos(i\bar{z})$  ?

(6) Is it right  $\overline{\cosh(z)} = \cosh(\bar{z})$  ?

(7) Prove  $\tan^{-1}z = \frac{i}{2} \log \frac{i+z}{i-z}$

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