

# **Complex Variables: Homework #2**

Based on algebra of complex numbers

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### Problem 1

Simplify or show the following.

- 1.
- 2.
- 3.
- 4.
- 5.

### Problem 2

Compute the following roots.

- 1.
- 2.
- 3.
- 4.
- 5.

### Problem 3

Based on theoretical problems.