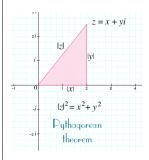
MATH 147 Review: The Modulus

Facts to Know

The Modulus for Real Numbers

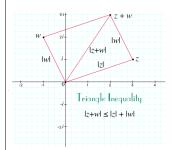
The Modulus for Complex Numbers



Basic Properties

- nonnegativity
- \bullet definiteness
- homogeneity

Triangle Inequality



Reverse Triangle Inequality

Examples

1. Compute |z+w|, |z|, and |w| where z=1-3i and w=1+4i. Verify that the triangle inequality and the reverse triangle inequality hold.

2. Compute $|z \cdot w|$ where z = 1 - 3i and w = 1 + 4i.