

# Understanding Analysis Chapter 1

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$$|a + b| \leq |a| + |b|$$

$$2ab \leq 2|a||b|$$

$$a^2 + 2ab + b^2 \leq |a|^2 + 2|a||b| + |b|^2$$

$$(a + b)^2 \leq (|a| + |b|)^2$$

$$|a + b| \leq |a| + |b|$$