

## AN INEQUALITY IN THE COMPLEX DOMAIN

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*Abstract.* We prove the inequality  $|1 + z_1| + |1 + z_2| + |1 + z_1 z_2| \geq |z_1| + |z_2|$ , where  $z_1, z_2$  are two arbitrary complex numbers. Consequently, it results that, if  $z_1, \dots, z_n$  are  $n$  arbitrary complex number, then  $\sum_{k=1}^n |1 + z_k| + \frac{1}{n-1} \sum_{1 \leq i < j \leq n} |1 + z_i z_j| \geq \sum_{k=1}^n |z_k|$ .

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### REFERENCES

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