

AN APPLICATION OF ABEL'S INEQUALITY

Abstract. In this note, using an inequality of Abel, we give the following inequality for $\alpha, \beta, a_1, a_2, \dots, a_n$ positive numbers with $\alpha \geq \beta$ and $a_1 a_2 a_3 \dots a_n \geq 1$:

$$\sum_{k=1}^n a_k^\alpha \geq \sum_{k=1}^n a_k^\beta.$$

Then we discuss four important particular cases.

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