A Note on a Paper of H. Alzer and S. Koumandos

Authors:	**Kunyang Wang**,
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Abstract:

In the paper `` Sharp inequalities for trigonometric sums in two variables,'' (*Illinois Journal of Mathematics,* Vol. 48, No.3, (2004), 887-907) Alzer and Koumandos investigated some special trigonometric sums. One of them is the sum

$$A_n^*(x,y) := \sum_{k=1}^{n} \frac{\cos(k-\frac{1}{2})x \sin(k-\frac{1}{2})y}{k-\frac{1}{2}}.$$

In the present note we show that the results of [1] can be easily obtained by a very simple elementary argument. And the results we obtained are more exact.

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