## Answer on Question \#46068 - Math - Algebra

Given $a, b>0$ such that $a b=18$, check whether their sum is greatest when $a=b$

## Solution.

If $a$ and $b$ are equal, then their values are $3 \sqrt{2}$ and their sum $a+b=6 \sqrt{2}$.
Consider example. Let $a=6, b=3$. Evidently $a>0, b>0, a b=18$, but $a+b=6+3=9>6 \sqrt{2}$ So, the

Answer: The sum is not the greatest when $a=b$.

