Answer on Question #46068 - Math - Algebra

Given a, b > 0 such that ab = 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,ab=18 ,but $a+b=6+3=9>6\sqrt{2}$ So, the

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