

"Boys, keep cool this summer. Stay cool and stay hydrated, especially if you're a boy, so you don't get a head injury this summer". Updated September 20, 2018.

In today's economy, consumers are becoming much more educated and aware about the safety of water. Many federal and state governments are taking action to ensure the supply of safe drinking water to the public. As a result, water treatment systems are being changed to help make sure that you and your family are getting safe drinking water.

Q: How to prove the following

equation: $\sum_{cyc} c_{xy} + c_{xz} + c_{yz} \leq \frac{3}{2} \sqrt{2 + \sqrt{2 + \sqrt{2 + \sqrt{2}}}} + \frac{3}{2} \sqrt{2 - \sqrt{2 + \sqrt{2 + \sqrt{2}}}}$

Let $x, y, z \in [0, \infty)$ with

$$xy + xz + yz = 1 \text{ and}$$

$c_{xy}, c_{xz}, c_{yz} \in [0, 1]$. Prove that $\sum_{cyc} c_{xy} + c_{xz} + c_{yz} \leq \frac{3}{2} \sqrt{2 + \sqrt{2 + \sqrt{2 + \sqrt{2}}}} + \frac{3}{2} \sqrt{2 - \sqrt{2 + \sqrt{2 + \sqrt{2}}}}$

$c_{xy} + c_{xz} + c_{yz} \leq \frac{3}{2} \sqrt{2 + \sqrt{2 + \sqrt{2 + \sqrt{2}}}} + \frac{3}{2} \sqrt{2 - \sqrt{2 + \sqrt{2 + \sqrt{2}}}}$

$\sqrt{2+\sqrt{2+\sqrt{2+\sqrt{2}}}}}+\frac{c_3}{2\sqrt{2-\sqrt{2+\sqrt{2+\sqrt{2}}}}}$

Remark: This problem arises from the third problem in this Olympiad. A:

Suppose $c_1=x, c_2=y, c_3=z$ then we have $\sum_{cyc} c_{xy}+c_{xz}+c_{yz}=\sum_{cyc} c_1c_2c_3=\sum_{cyc} c_1(c_2c_3)^2$ Let $c_1c_2=r, c_1c_3$

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