

A-SSE Increasing or Decreasing?

Variation 1

Task

Consider the expression

$$\frac{1}{\frac{1}{R_1} + \frac{1}{R_2}}$$

where R_1 and R_2 are positive.

Suppose we increase the value of R_1 while keeping R_2 constant. Does the value of the expression above increase, decrease, or stay the same? Explain in terms of the structure of the expression.



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