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A New Proof of the Monotonicity Property of Power Means

Authors: **Alfred Witkowski**,

Abstract: If M_r is the weighted power mean of the numbers $x_j \in [a, b]$ then

$Q_r(a, b, x) = (a^r + b^r - M_r^r)^{1/r}$ is increasing in r. A new proof of this

fact is given.

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