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Note on Feng Qi's Integral Inequality

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Abstract: We give a generalization of Feng Qi's result from [5] by showing that if a function $f \in C^1([a, b])$ satisfies $f(a) \geq 0$ and $f'(x) \geq n(x-a)^{n-1}$ for $x \in [a, b]$ and a positive integer n then

$$\int_a^b [f(x)]^{n+2} dx \geq \left(\int_a^b f(x) dx \right)^{n+1}$$
 holds. This follows from our answer

to Feng Qi's open problem.



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