

question about nth moment method

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hi guys. there is a question, Let X be a nonnegative random variable.
Prove that $E(x) \leq [E(x^2)]^{1/2} \leq [E(x^3)]^{1/3} \dots$ anybody knows
how to solve this problem? thanks a lot.

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 - ◇ *From:* glenbarnett
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