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$U_0 = 1 + Gx$ Where G is A Constant. (a) Please Compute U_1 And V As A Function Of U_0 . Please Leave Your Answer (for This Part) In Terms Of U_0 ; No Need To Expand Out The Relation Explicitly. Sol. We Simply Compute: $U_1 = \sqrt{1 + (U_0)^2} = \sqrt{1 + 2gx + G^2x^2}$ And Thus: $V = U_1 U_0 = \sqrt{1 + 2gx + G^2x^2} (1 + Gx)$ (b) Calculate $V(x)$ In The Limits Of $x \ll 0$ (to Lowest Non-vanishing ... 4th, 2024

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