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Relativity 1 Newtonian Relativity

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PHYSICS 631: General Relativity Sol.

$U_0 = 1 + Gx$ Where Gis 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 $x \ll 1/G$ (to Lowest Non-vanishing ... 2th, 2024

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7 The Perturbative Expansion And Einstein's Law Of Gravity. 31 8 The Action Principle. 35 9 Special Coordinates. 40 10 Electromagnetism. 43 11 The Schwarzschild Solution. 45 12 Mercury And Light Rays In The Schwarzschild Metric. 52 13 Generalizations Of The Schwarzschild Solution. 56 14 The Robertson-Walker Metric. 59 15 Gravitational ... 2th, 2024

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