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Z S X' Y' Z' S' V Consider Tossing A Ball Vertically In A Moving Car X X Vt Yy Zz ...  
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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  $x \ll 1/G$  (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 ... 3th, 2024

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