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R Y R R Y $\partial \partial = \rightarrow 0$ Now: Y R R C GM Rc GM C Y R R R V Y R Y V $\partial \partial - = \partial \partial \partial \partial = \partial \partial \partial \partial = \partial \partial 2 2 2$] 2 ([1, From Which: R C GM R R R R C GM Y R R C GM Y V Y Y 2 3 0 2 0 2 2 2 Now, We Calculate The Difference Between The Paths Dx And Dx' Of Wavefronts At A Vertical Distance Y And Y+dy, At Which Jan 6th, 2024

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$U_0 = 1 + Gx$ 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: $U_1 = P 1 + (U_0)^2 = P 2gx + G^2x^2$ And Thus: $V = U_1 U_0 = P 2gx + G^2x^2 1 + Gx$ (b) Calculate $V(x)$ In The Limits Of $X \neq 0$ (to Lowest Non-vanishing ... Jan 8th,

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