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R Y R R Y $\partial \partial$ = →0 Now: Y R R C GM Rc GM C Y R R R V Y R Y V $\partial \partial - = \partial \partial \partial \partial = \partial \partial \partial = \partial \partial$ 2 2 2]) 2 ([1, From Which: R C GMR 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 7th, 2024

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U0 = 1 + Gx Where Gis A Constant. (a) Please Compute U1 And V As A Function Of U0. Please Leave Your Answer (for This Part) In Terms Of U0; No Need To Expand Out The Relation Explicitly. Sol. We Simply Compute: U1 = P 1 + (U0)2 = P 2gx+ G2x2 And Thus: V= U1 U0 = P 2gx+ G2x2 1 + Gx (b) Calculate V(x) In The Limits Of X!0 (to Lowest Non-vanishing ... 6th, 2024

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