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Answers May Vary. Sample Answers: (a) The Three Most Natural Reference Frames To Use Would Be: 1) A Frame Moving Alongside The Skater At The Same Velocity; 2) A Frame Fixed On The Deck Of The Boat; And, 3) A Frame Fixed On The Shoreline. (b) For Reference Frame 1 In Part (a), The Student On Skates Would Not Be Movi Jan 1th, 2024

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1 Articles 598-599 Of Maxwell’s Treatise In His Treatise [55], Maxwell Argued That An Element Of A Circuit (Art. 598), Or A Particle (Art. 599) Which Moves With Velocity V In Electric And Magnetic fields E And B = μH Experiences An Electromotive Intensity (Art. 598), I.e., A Vector Electromagnetic Force Given By Eq. (B) Of Art. 598 And Eq. (10) Of Art. 599,8 Mar 7th, 2024

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4 K Ky Y= ´ (18) I.e. ( v/c, K) Is A Four Vector [4] The Result Is That The Magnitude Of The Wave Vector Transforms As 2 2 2 2 2 2 2 2 2 2 1 Cos Sin 1 X Y Vw W U C C C K K K K V C θ θ Apr 9th, 2024

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The Clock Will Show An Elapsed Time ΔTwhereas A Clock That Stays At Rest At The Origin Will Show An Elapsed Time T2 –t1 >ΔT. Because The Clock Is Undergoing Acceleration An Observer Moving With The Clock Is No Longer An Inertial Observer (he Is Feeling All Kinds Of (fictitious) Apr 22th, 2024

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