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Einstein 1.1 Spacetime 1. a) 0.5 1. t 0.1 z
b) The maximum z occurs where $0 = z' = 2t - 3t^2$, or $t = 2/3$. At that time, $z = (2/3)^2 - (2/3)^3 = 4/27$. c) The velocity at departure is $z'(0) = 0$. The velocity at return is $z'(1) = -1$. d) Replacing the factor $(1 - t)$ by $(1 - t)^2$ in $z(t)$ will make $z'(1) = 0$. Then, for example, any graph of the form

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the time dilation formula is derived, and define the components of the two-dimensional space-time velocity, amongst other topics. Provides a heuristic derivation of the Minkowski distance formula Uses relativistic photography to see Lorentz transformation and vector algebra manipulation in action Includes worked examples to elucidate and complement the topic being discussed Written in a very accessible style

The manual, prepared by David Mills, professor emeritus at the College of the Redwoods in California, provides solutions for selected odd-numbered end-of-chapter problems in the textbook and uses the same side-by-side format and level of detail as the Examples in the text.

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