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function where \mathbf{r} is a position and t is a time the value of \mathbf{r} is a point of space specifically in the region where the wave is defined in mathematical terms it is usually a vector in the cartesian three dimensional space however in many cases one can ignore one dimension and let \mathbf{r} be a

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hamiltonian mechanics emerged in 1833 as a reformulation of lagrangian mechanics introduced by sir william rowan hamilton hamiltonian mechanics replaces generalized velocities used in lagrangian mechanics with generalized momenta both theories provide interpretations of classical mechanics and describe the same physical

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