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13 interpret them): ( $t = t - vx/c^2$ .  
 $x = (x - vt)$  where  $c$  represents the speed of light (about 300,000 kilometers per second) and  $\gamma = 1/\sqrt{1 - v^2/c^2}$ . The special theory of relativity, developed by Einstein in 1905, boils down to analyzing the consequences of these transformations.

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General Relativity, at its core, is a mathematical model that describes the relationship between events in space-time; the basic finding of the theory is that the relationship between events in the same as the relationship between points on a manifold with curvature, and the geometry of that manifold is determined by sources of energy-momentum and their distribution in

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space-time.

The Geometry Of Relativity

The Maths of General Relativity—  
Markus Hanke

First general relativity is typically taught at a 4th year undergraduate level or sometimes even a graduate level, obviously this presumes a good undergraduate training in mathematics and physics. Personally, I'm more of the opinion that one should go and learn other physics before tackling general relativity.

~~What are the prerequisites to studying general relativity?~~

ometry and general relativity require mathematical entities of still higher rank. The tools of vector analysis are simply incapable of allowing one to write down the governing laws in an invariant form, and one has to adopt

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A different mathematics from the vector analysis taught in the freshman and sophomore years. Tensor calculus is that ...

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Definition and basic properties.

General relativity is a metric theory of gravitation. At its core are Einstein's equations, which describe the relation between the geometry of a four-dimensional pseudo-Riemannian manifold representing spacetime, and the energy–momentum contained in that spacetime.

~~General relativity—Wikipedia~~

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high school mathematics and physics.

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In general relativity, Regge calculus is a formalism for producing simplicial approximations of spacetimes that

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are solutions to the Einstein field equation. The calculus was introduced by the Italian theoretician Tullio Regge in 1961. Overview. The starting point for Regge's work ...

~~Regge calculus - Wikipedia~~

Manifolds Generally speaking, a manifold is a space that with curvature and complicated topology that locally looks like  $\mathbb{R}^n$ . Examples:  $\mathbb{R}^n$  itself.  $\mathbb{R}$  is a line and  $\mathbb{R}^2$  a plane. The  $n$ -sphere,  $S_n$ ; that is, the locus of all points some fixed distance from the origin in  $\mathbb{R}^{n+1}$ .  $S^1$  is a circle and  $S^2$  sphere. The  $n$ -torus  $T_n$ .  $T^2$  is the surface of a doughnut. A Riemann surface of genus  $g$ .

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