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1.15 Tensor Calculus 2: Tensor Functions

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Introduction To Tensor Calculus For General Relativity The Speed Of Light $c = 1$. Greek Indices $(\mu, \nu, \text{Etc.}, \text{Which Take The Range } \{0, 1, 2, 3\})$ Will Be Used To Represent Components Of Tensors. The Einstein Summation Convention Is Assumed: Repeated Upper And Lower Indices Are To Be Summed Over Their Ranges, E.g., $A_\mu B^\mu \equiv A_0 B^0 + A_1 B^1 + A_2 B^2 + A_3 B^3$. Four-vectors Will Be Represented With

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27. Tensor Products $R^N = X$ the Quotient, And $Q: M \rightarrow R^N$ the Quotient Map. Let $B: M \rightarrow Q$ be the 0-map. A De Ning Property Of The Tensor Product Is That There Is A Unique R -linear $\beta: M \rightarrow R^N$ Making The Usual Diagram Commute, That Is, Such That $B = \beta \circ \alpha$, Where $\alpha: M \rightarrow M \otimes R^N$. Both The Quotient Map Q and The 0-map $M \rightarrow R^N$ allow The 0-map $M \rightarrow Q$ to Factor

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