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Open Subset Of  $\mathbb{R}^3$ , let  $E^3$  Denote A Three-dimensional Euclidean Space, And Let  $\Theta : \Omega \rightarrow E^3$  Be A Smooth Injective Immersion. We Begin By Reviewing (Sections 1.1 Apr 16th, 2024.

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Lemma 1 Let  $M$  Be A Smooth Manifold. Then For Any Point  $P \in M$  In The Interior Of  $M$  And Any Tangent Direction  $V \in T_p M$  The Initial Value Problem  $\gamma(s) \tan M$

$\gamma(0) = p$   $\gamma'(0) = v$  Has A Unique Solution  $\gamma: [0, \infty) \rightarrow M$ , May 14th, 2024

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