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The Lie bracket of X and Y at p is given in local coordinates by the formula $[X, Y] = (X^i \partial_j Y^j - Y^j \partial_j X^i) \partial_i$, where ∂_i and ∂_j denote the operations of taking the directional derivatives with respect to X and Y , respectively. Here we are treating a vector in n -dimensional space as an n -tuple, so that its directional derivative is simply the tuple consisting of the directional derivatives of its coordinates.

Lie derivative - Wikipedia

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Mathematical physics - Wikipedia

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