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Stream Function as a Vector Potential

In general, a solenoidal vector field $\boldsymbol{u}$ that satisfies $\boldsymbol{\nabla} \cdot \boldsymbol{u} = 0$ admits a vector potential $\boldsymbol{A}$ such that $\boldsymbol{u} = \boldsymbol{\nabla} \times \boldsymbol{A}$. Using Cartesian coordinates in two dimensions, show that the stream function can be identified as the third component of a vector potential $\boldsymbol{A}$.

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