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Computing the Divergence and Curl in Polar Coordinates

Let \mathbf{u} be a two-dimensional vector field given in polar coordinates by

$$\mathbf{u} = \frac{1}{r} \left(k_1 \hat{\mathbf{r}} + k_2 \hat{\boldsymbol{\theta}} \right),$$

where k_1 and k_2 are constants. For $r \neq 0$,

determine $\nabla \cdot \mathbf{u}$ and $\nabla \times \mathbf{u}$.

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