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The Vorticity in Two Dimensions

Consider a two-dimensional velocity field given by

$$\mathbf{u} = u_1(x, y)\mathbf{i} + u_2(x, y)\mathbf{j}.$$

Show that the vorticity $\boldsymbol{\omega} = \nabla \times \mathbf{u}$ takes the form

$$\boldsymbol{\omega} = \omega_3(x, y)\mathbf{k}.$$

Determine ω_3 in terms of u_1 and u_2 .

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