



Item Navigation

Conservative Vector Fields

Let $\mathbf{u} = (2xy + z^2)\mathbf{i} + (2yz + x^2)\mathbf{j} + (2zx + y^2)\mathbf{k}$.

(a) Show that \mathbf{u} is a conservative vector field.

(b) Calculate the scalar field ϕ such that $\mathbf{u} = \nabla\phi$.

✓ Completed

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