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[> restart: with(VectorCalculus) : With(LinearAlgebra) :
[> SetCoordinates(spherical[r, theta, phi]) :
[> u := cos(theta)^3 - sin(theta)^3 :
[> v_curl := VectorField([1, 1, 1]) :
[> dr := VectorField([-sin(theta), cos(theta), 0]) :
[> integrandum := u·v_curl·dr
    integrandum := - (cos(θ)3 - sin(θ)3) sin(θ) + (cos(θ)3 - sin(θ)3) cos(θ)    (1)
[> int(integrandum, theta = 0..2·Pi)
                                 $\frac{3\pi}{2}$     (2)
[>

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