

# Global exercise - GUE11

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Summary of content covered: Analysis

- Review line integral of the 1st kind (scalar field) and 2nd kind (vector field)
- Surface integral of the 1st kind (scalar field) and 2nd kind (vector field)
- Gauss's theorem and its useful applications

## 1 Analysis: Surface integral of the first kind

**Example 1.** *Examine*

Approach:

## 2 Evaluation