

18. Set $F_1 = -ww_x$ and $F_2 = ww_x$ in Green's theorem, where subscripts x and y denote partial derivatives. Then $(F_2)_x = (F_1)_y = w_x^2 + w_y^2$ because $\nabla^2 w = 0$, and

$$\begin{aligned} F_1 dx + F_2 dy &= (-ww_x x' + ww_x y') ds \\ &= w(\text{grad } w) \cdot (y' \mathbf{i} - x' \mathbf{j}) ds \\ &= w(\text{grad } w) \cdot \mathbf{n} ds = w \frac{dw}{dn} ds \end{aligned}$$

where primes denote derivatives with respect to s .

20. **Project.** We obtain $\text{div } \mathbf{F}$ in (11) from (1) if we take $\mathbf{F} = [F_2, -F_1]$. Taking $\mathbf{n} = [y', -x']$ as in Example 4, we get from (1) the right side in (11).

$$(\mathbf{F} \cdot \mathbf{n}) ds = \left(F_2 \frac{dy}{ds} + F_1 \frac{dx}{ds} \right) ds = F_2 dy + F_1 dx.$$

Formula (12) follows from the explanation of (1').

Furthermore, $\text{div } \mathbf{F} = 7 - 3 = 4$ times the area of the disk of radius 2 gives 16π .

For the line integral in (11) we need

$$\mathbf{r} = \left[2 \cos \frac{s}{2}, 2 \sin \frac{s}{2} \right], \quad \mathbf{r}' = \left[-\sin \frac{s}{2}, \cos \frac{s}{2} \right], \quad \mathbf{n} = [y', -x']$$

where s varies from 0 to 4π . This gives

$$\oint_C \mathbf{F} \cdot \mathbf{n} ds = \oint_C (7xy' + 3yx') ds = \int_0^{4\pi} \left(14 \cos^2 \frac{s}{2} - 6 \sin^2 \frac{s}{2} \right) ds = 16\pi.$$

In (12) we have $\text{curl } \mathbf{F} = \mathbf{0}$ and

$$\mathbf{F} \cdot \mathbf{r}' = -14 \cos \frac{s}{2} \sin \frac{s}{2} - 6 \cos \frac{s}{2} \sin \frac{s}{2} = -10 \sin s$$

which gives zero upon integration from 0 to 4π .

SECTION 10.5. Surfaces for Surface Integrals, page 445

Purpose. The section heading indicates that we are dealing with a tool in surface integrals, and we concentrate our discussion accordingly.

Main Content, Important Concepts

Parametric surface representation (2) (see also Fig. 239)

Tangent plane

Surface normal vector \mathbf{N} , unit surface normal vector \mathbf{n}

Short Courses. Discuss (2) and (4) and a simple example.

Comments on Text and Problems

The student should realize and understand that the present parametric representations are the two-dimensional analog of parametric curve representations.

Examples 1–3 and Probs. 1–10 concern some standard surfaces of interest in applications. We shall need only a few of these surfaces, but these problems should help students grasp the idea of a parametric representation and see the relation to representations (1). Moreover, it may be good to collect surfaces of practical interest in one place for possible reference.

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