

Fourier Analysis, Stein and Shakarchi

Chapter 4 Some Applications of Fourier Series

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Notation: $\mathbb{T} := [-\pi, \pi]$.

Exercises

1. Let $\gamma : [a, b] \rightarrow \mathbb{R}^2$ be a parametrization for the closed curve Γ .
(a) Prove that γ is a parametrization by arc-length if and only if the length of the curve from $\gamma(a)$ to $\gamma(s)$ is precisely $s - a$ for each $s \in [a, b]$, that is,

$$\int_a^s |\gamma'(t)| dt = s - a.$$

- (b) Prove that any curve Γ admits a parametrization by arc-length. [Hint: If η is any parametrization, let $h(s) = \int_a^s |\eta'(t)| dt$ and consider $\gamma = \eta \circ h^{-1}$.]

Proof. (a) $(\Rightarrow)$ is trivial. $(\Leftarrow)$ This is the definition of arc-length.

(b) is proved as hint and (a). □

2. Suppose $\gamma : [a, b] \rightarrow \mathbb{R}^2$ is a parametrization for a closed curve Γ , with $\gamma(t) = (x(t), y(t))$.
(a) Use integration by parts, one can show that

$$\frac{1}{2} \int_a^b (x(s)y'(s) - y(s)x'(s)) ds = \int_a^b x(s)y'(s) ds = - \int_a^b y(s)x'(s) ds.$$

- (b) Define the reverse parametrization of γ by $\gamma^- : [a, b] \rightarrow \mathbb{R}^2$ with $\gamma^-(t) = \gamma(b + a - t)$. The image of γ^- is precisely Γ , except that the points $\gamma^-(t)$ and $\gamma(t)$ travel in opposite directions. Thus γ^- "reverses" the orientation of the curve. It's easy to prove that

$$\int_{\gamma} (x dy - y dx) = - \int_{\gamma^-} (x dy - y dx).$$

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Niels Jacob, Kristian P Evans



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