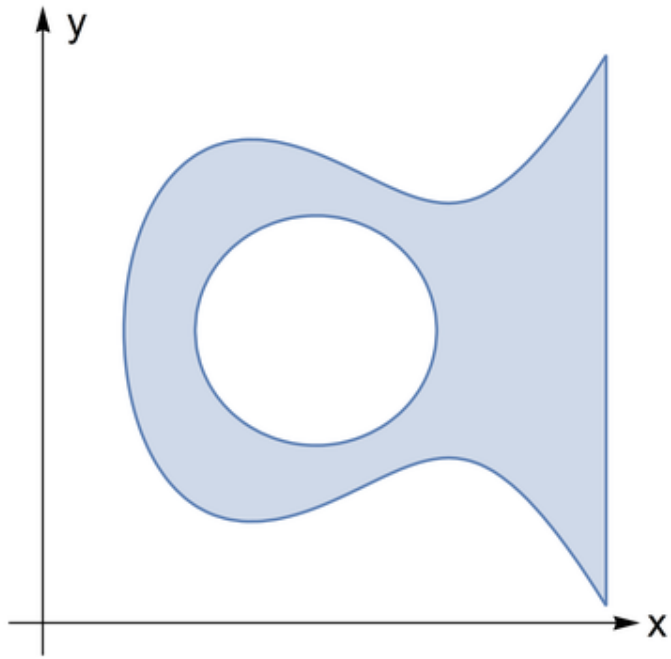
Double Integrals over General Regions

Question

To compute $\iint_{\mathcal{R}} 1 \, dA$ using iterated integrals of the form

$$\int_a^b \int_{f(x)}^{g(x)} 1 \, dy dx,$$

how many sub-regions must the region $\mathcal{R}$ shown be broken into?



A. 2 B. 3 C. 4 D. 5 or more