

point  $(0, 0, \dots, 0, z)$ , that is,

$$S_r^{k-2}(z) = \{x : x_1^2 + \dots + x_{k-1}^2 = r^2, x_k = z\}.$$

When  $z = 0$ , we shall write simply  $S_r^{k-2}$  and identify this sphere with the same  $(k-2)$ -dimensional hypersphere in  $R^{k-1}$ . We observe that  $S_r^0(z)$  consists of the two points  $(r, z)$  and  $(-r, z)$  in  $R^2$ . Another way of defining the set  $S_r^{k-2}(z)$  is as the intersection of the  $(k-1)$ -dimensional sphere of radius  $r$  centered at  $(0, 0, \dots, 0, z)$  in  $R^k$  with its equatorial hyperplane  $P_z = \{(x_1, \dots, x_k) : x_k = z\}$ .

Second, for each  $a \in R^k$  and each  $\delta > 0$ ,  $I_a^k(\delta)$  is the closed hypercube of side  $\delta$  in  $R^k$  whose "lower left" corner is  $a$ , that is

$$I_a^k(\delta) = \{x : a_j \leq x_j \leq a_j + \delta, j = 1, \dots, k\}.$$

Third, the set of points  $(m_1, \dots, m_k) \in R^k$  having integer coordinates will be denoted  $\mathcal{Z}^k$ .

Fourth, for all real numbers  $r$  and  $\delta$  such that  $0 < \delta < r$ ,  $C_{r,\delta}^k$  is the set of lattice points  $m \in \mathcal{Z}^k$  for which the closed hypercube of side  $\delta$  with lower left corner  $\delta m$  intersects the hypersphere  $S_r^{k-1}$  in  $R^k$ . That is,

$$C_{r,\delta}^k = \{m : I_{\delta m}^k(\delta) \cap S_r^{k-1} \neq \emptyset\}.$$

Fifth,  $N(r, \delta, k)$  is the number of points in  $C_{r,\delta}^k(z)$ , that is, the number of hypercubes of side  $\delta$  with lower left hand corner at a point  $\delta m$ ,  $m \in \mathcal{Z}^k$ , that intersect the hypersphere  $S_r^{k-1}$ . Our main goal in the first stage of the proof will be to prove the estimate  $N(r, \delta, k) \leq 6^{k^2} (\frac{r}{\delta})^{k-1}$ . (A smaller constant than  $12^{k^2}$  could easily be attained, but we have no need of any improvement, and this constant seems to be the one that makes the argument simplest.)

Sixth, and finally,  $A_{r,\delta}^k$  is the union of all the hypercubes  $I_{\delta m}^k(\delta)$  that intersect the hypersphere  $S_r^{k-1}$ , that is, for which  $m \in C_{r,\delta}^k$ . This set is a finite union of compact sets, hence is compact. Obviously it contains the hypersphere  $S_r^{k-1}$ . What is slightly less obvious is that its interior contains this sphere. In fact no point of the sphere can be a limit point of points exterior to  $A_{r,\delta}^k$ , since if  $\{x_n\}$  is a sequence of points such that each  $x_n$  belongs to a hypercube  $I_{\delta m_n}^k(\delta)$  not contained in  $A_{r,\delta}^k$ , and  $x_n \rightarrow x$ , some set  $I_{\delta m_{n_0}}^k(\delta)$  must occur infinitely often. (Any bounded neighborhood of  $x$  intersects only finitely many of these hypercubes.) Since  $I_{\delta m_{n_0}}^k(\delta)$  is closed, this implies that  $x$  belongs to  $I_{\delta m_{n_0}}^k(\delta)$ . Since  $I_{\delta m_{n_0}}^k(\delta)$  is not contained in  $A_{r,\delta}^k$  it follows that  $x \notin S_r^{k-1}$ . Thus no sequence of points exterior to  $A_{r,\delta}^k$  can approach a point of  $S_r^{k-1}$ . It follows that  $S_r^{k-1}$  contains no points of the boundary of  $A_{r,\delta}^k$  and is therefore contained in the interior of this set.

With these definitions out of the way we can proceed to the proof, which we break into several stages, each broken into several steps, in order to make navigating easier.

**Stage 1.** Establish that the sphere  $S_r^{k-1}$  in  $R^k$  has  $k$ -dimensional content 0.

# Rudin Exercises Solution Chapter 8

**Jean-Paul Allouche, Jeffrey Shallit**



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