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 1-20 Assume  $A \subseteq \mathbb{R}^n$  is not bounded. Then  $\bigcup_{k=1}^{\infty} (-k, k)^n = \bigcup_{k=1}^{\infty} \{(-k, k) \times \dots \times (-k, k)\}$  is an open cover of  $A$  that has no finite subcover, a contradiction. Now assume  $A$  is not closed -- that is, there is a point  $x \notin A$  on  $A$ 's boundary. Let  $U_k(x)$  be an open square of side length  $k$  centered on  $x$ .

Solutions and Comments: Spivak's "Calculus on Manifolds"  
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 Calculus On Manifolds Spivak Solutions Then, by one-variable calculus (in particular the Mean Value Theorem, see e.g. Apostol)  $\frac{\partial f}{\partial x_1}(x, y_1) = \frac{\partial f}{\partial x_2}(x, y_2)$  for all  $(x, y_1, y_2)$ . That is,  $\frac{\partial f}{\partial x_1}$  is independent of the second variable. If in addition  $\frac{\partial f}{\partial x_1} = 0$ , then  $\frac{\partial f}{\partial x_1}$  is constant in both variables by similar reasoning.

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 Step 1: We divide the square  $[0, 1] \times [0, 1]$  into four equal squares by connecting  $(1, 0)$  and  $(0, 1)$ ,  $(0, 1)$  and  $(1, 1)$ . We place a point in each of the squares and make sure no two points are on the same horizontal or vertical line. Step n: We divide each of the squares obtained in Step  $(n-1)$  into four equal squares.

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Spivak Answer Book for Calculus - Scribd  
 Spivak's book should be a help to those who wish to see Stoke's Theorem as the modern working mathematician sees it. A student with a good course in calculus and linear algebra behind him should find this book quite accessible. Princeton, New Jersey Waltham, Massachusetts August 1965 Robert Gunning Hugo Rossi

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