

BOX DIMENSION AND HAUSDORFF DIMENSION OF UNIFORM CANTOR SET

K. J. Shinde¹ & S. M. Padhye²

¹*Research Scholar, Department of Mathematics, CAET, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola (MS), India*

²*Research Scholar, Department of Mathematics, RLT College of Science, Akola (MS), India*

ABSTRACT

The properties of uniform Cantor sets are proved and determined that Cantor ternary sets Cantor $-\frac{2}{5}$ set, Cantor $-\frac{3}{7}$ set, Cantor $-\frac{1}{4}$ set, Cantor $-\frac{1}{5}$ set, Cantor $-\frac{4}{15}$ set, Cantor $-\frac{1}{7}$ set are uniform Cantor sets by using the definition of uniform Cantor set. Also, determined box dimension and Hausdorff dimension of uniform Cantor set as well as Cantor like sets.

KEYWORDS: Box Dimension, Cantor Set, Hausdorff Dimension

Article History

Received: 09 Apr 2020 | Revised: 15 Apr 2020 | Accepted: 24 Apr 2020
