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Title: New characterizations of W -curves

Author(s): Bang-Yen Chen, Dong-Soo Kim and Young Ho Kim

We prove that a curve in a Euclidean space of arbitrary dimension is a W -curve if and only if the chord joining any two points on the curve meets the curve at the same angle. Moreover, W -curves in Euclidean 3-space $\mathbb{E}^3$ are characterized with two more general conditions. In particular, we prove that a curve in $\mathbb{E}^3$ is a W -curve if and only if the difference of the values of cosine of the two angles between the curve and the chord joining any two points on the curve depends only on the arc-length of the curve between the two points.

Address:

Bang-Yen Chen
Department of Mathematics
Michigan State University
East Lansing, MI 48824-1027
USA
E-mail: bychen@math.msu.edu

Address:

Dong-Soo Kim
Department of Mathematics
College of Natural Sciences
Chonnam National University
Kwangju 500-757
Korea
E-mail: dosokim@chonnam.chonnam.ac.kr

Address:

Young Ho Kim
Department of Mathematics
College of Natural Sciences
Kyungpook National University
Taegu 702-701
Korea
E-mail: yhkim@knu.ac.kr