

ZMATH 2013b.00682

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A stable one-dimensional table.

Consortium, No. 101, 15-16 (2011).

From the introduction: In the Columbia Teachers College/COMAP Mathematical modeling handbook, one of the modules, “Stable table,” concerns this topic: If a typical four-legged table on a continuous but irregular floor has only three legs that are on the floor, it is not necessary to use a folded napkin or other prop to stabilize it. You can rotate the table, and there will be a stable position within a rotation of at most 90° stable, but not necessarily horizontal.

Classification: I20

Keywords: calculus; continuous functions; continuity; intermediate value theorem; sequences of points; piecewise linear functions