On Self-Intersection and Rotation of Plane Curves

Undergraduate Math Club CORNELL UNIVERSITY



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ABSTRACT

The tangent winding number of a smooth closed plane curve is the number of complete rotations that a tangent vector makes as it goes around the curve. We will explore the remarkable relationship between this global invariant and the behavior of self-intersections for curves in the plane.

OCT 16 at 4:45pm Malott 532 × Refreshments