

Quadriseccants of hexagonal trefoil knot

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An n -secant is an ordered n -tuple of points in k which lie in order on an oriented line whose intersection with k has at least n components. A 4-secant is called a quadriseccant. Let k be a knot which has finitely many quadriseccants. Then they cut k into finitely many subarcs. Straightening each of the subarcs with the end points fixed, we obtain a polygonal knot k' which may have self-intersections. We call k' the quadriseccant approximation of k . In this talk we will show that every hexagonal trefoil knot has exactly three quadriseccants and the quadriseccant approximation of a hexagonal trefoil is a trefoil knot.

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