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Exhausting the circle – on mathematics and history of rectification.

East-West J. Math., Spec. Vol., 1-77 (2010).

This is a very interesting article on the history of the formulae for the perimeter and the area of a circle. Many interesting observations are made and lots of historical and rigorous references are given. The text is worth reading both by undergraduate and graduate students willing to overview the evolution of these mathematical concepts through history.

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Classification: G30 A30

Keywords: arc-rectification; Archimedes' circle-area theorem; Axiom of Archimedes; bounded variation; convexity axiom; ordered field; squaring the circle