Clothoid, version 1.0, 2016-02-04

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The program clothoid(*type*) draws two types of curves:

clothoid(1) generates the clothoid, which is defined by the equations:

x(s)= and y(s)=

This is equivalent to κ(s)=s, where κ is the curvature and s is curve length.

clothoid(2) prompts you for the constant c in the equation to κ(s)=s²+c. This produces a curve with the equations and .

For performance reasons, the program defines the clothoid for -10 <= s <= 10 only and the curves produced by clothoid(2) for-5<=s<=5.

Select page 1.2 to enter clothoid(1) or clothoid(2), select page 1.3 (a graph screen) to see the curves. You can custom the display there to see the whole curve or parts of it.