

Enhancement of Conic Section in Geometry Module of SymPy

Idea

The Project is to Enhance the Geometry Module of SymPy by adding more Features and Functions in which the earlier patch code are lacking behind. Also to make a New `hyperbola.py` Patch Code in Geometry Module and apply all necessary and new features and functions to this.

Status

The current code is located in `sympy/geometry`. Geometry Module is lacking most of Features and Functions like equations of Pole, Polar, Curvature Radius etc and also the whole Hyperbola Features is missing and very little Features of General Conic Section.

Involved Software

Python

Difficulty

Beginner

Prerequisite Knowledge

Some familiarity with High School and College Level Algebra, Conics and Geometry is beneficial.