

The Limacon of Pascal

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In my presentation I will discuss the family of curves the Limacon of Pascal. The Limacon is defined by the Cartesian Equation

$$(x^2 + y^2 - 2ax)^2 = b^2(x^2 + y^2).$$

I will examine and discuss features of the curve and show how the curve changes with different values. Additionally I will find and discuss the singularities of this family of curves.