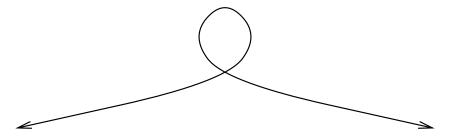
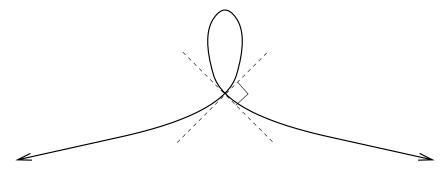
Problem statement If A is a positive number, the parametric curve $\begin{cases} x = t^3 - t \\ y = \frac{A}{1 + t^2} \end{cases}$ looks like:



For one value of A, the "self-intersection" of the curve is perpendicular. The picture looks like:



Find that value of A.