

# Conchoids of Slüse

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Conchoid of Slüse (+)

$$a(x - a)(x^2 + y^2) = k^2x^2, \quad a > 0, k > 0.$$

Conchoid of Slüse (-)

$$a(x - a)(x^2 + y^2) = -k^2x^2, \quad a > 0, k > 0.$$

These two curves share many of the same properties, including unboundedness and having no central symmetry, a single singular point, a single vertical asymptote and a single axis of symmetry along the  $x$ -axis. Both curves share interesting properties, and their relationship suggests that their family is an attractive one for further investigation. I will investigate the similarity in properties, as well as the construction of this family of curves.