

Apollonius' circle. The locus of a point moving so that the ratio of its distances from two fixed points is fixed, is a circle.

If two circles C_1 and C_2 are fixed with radii r_1 and r_2 , then the circle of Apollonius of the two centers with ratio r_1/r_2 is the circle whose diameter is the segment that the two homothety centers of the circles.