# CONIC SECTIONS

- Conic sections, also called conic, in geometry, any curve produced by the intersection of a plane and a right circular cone.
- Conics may also be described as plane curves that are the paths (loci) of a point moving so that the ratio of its distance from a fixed point (the focus) to the distance from a fixed line (the directrix) is a constant, called the eccentricity of the curve.
- If the eccentricity is zero, the curve is a circle; if equal to one, a parabola; if less than one, an ellipse; and if greater than one, a hyperbola
- Every conic section corresponds to the graph of a second degree polynomial equation of the form Ax<sup>2</sup> + By<sup>2</sup> + 2Cxy + 2Dx + 2Ey + F = 0



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**Camilla Rothe** 

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