

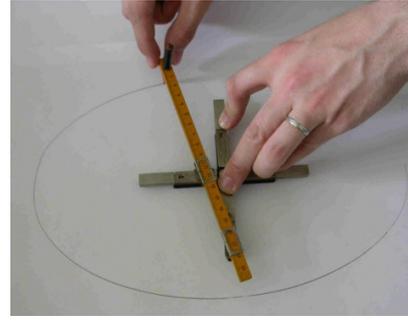
# Advance Organizer – Parabeln, Kreise und Ellipsen



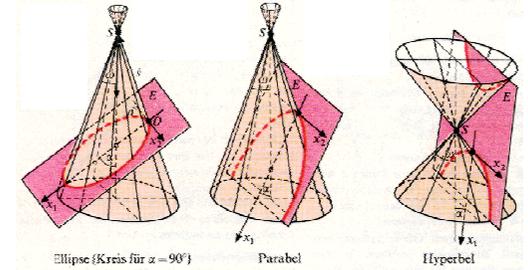
Anwendungen:

- Brücken
- Wurfparabel
- Planetensystem
- freier Fall
- Flüstergewölbe
- Nierensteine
- ...

geometrische Konstruktion  
Ellipsenzirkel / Parabelzirkel

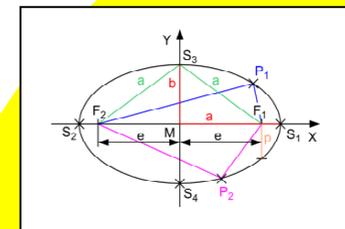


Kegelschnitte

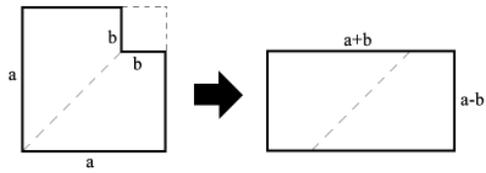


quadratische Gleichungen

$$f(x) = a \cdot (x - x_s)^2 + y_s$$

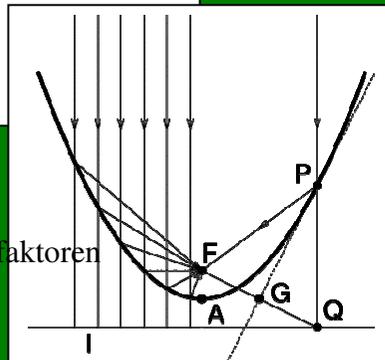


Hauptachsen  
Brennpunkt  
Leitgerade  
Exzentrizität

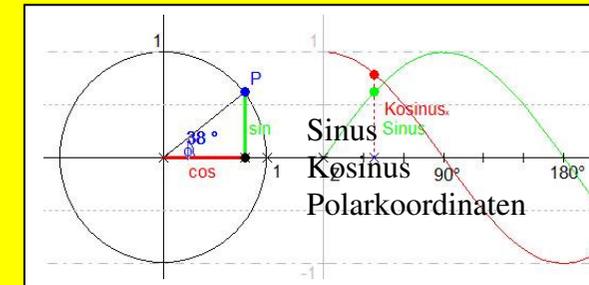
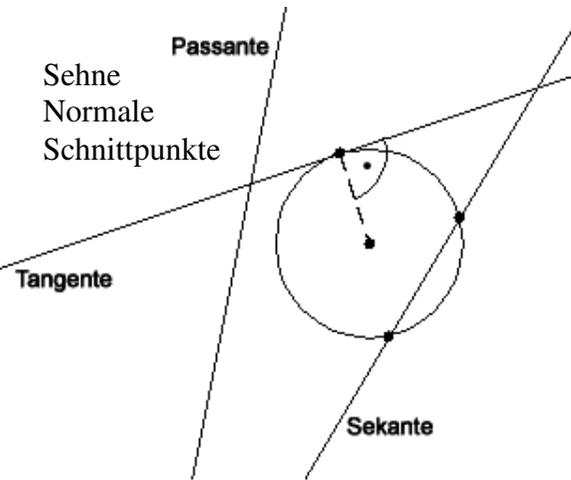


$$a^2 - b^2 = (a+b)(a-b)$$

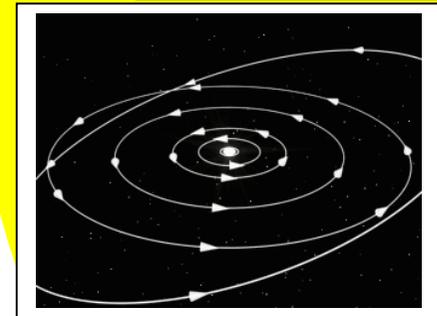
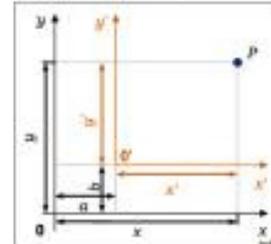
Funktionen  
Nullstellen  
p/q-Formel  
binomische Formeln



Normalform  
Scheitelpunktform  
Zerlegung in Linearfaktoren



Koordinatensystem  
Verschiebung im Koordinatensystem



Ellipsen  
Kreise

Parabeln

