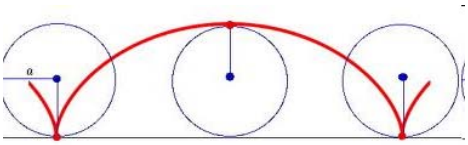
Más Curvas

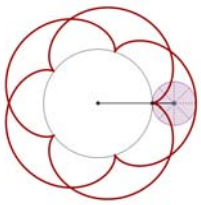
- Cicloides, Hipocicloides, Epicicloides
- Trocoides, Hipotrocoides, Epitrocoides
- Deltoide, Astroide
- Cardioide, Nefroide
- Flores
- Espirales
- Catenaria

Cicloide



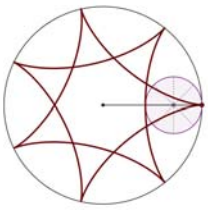
Cicloides y Trocoides\Cicloide.ggb

Epicicloide



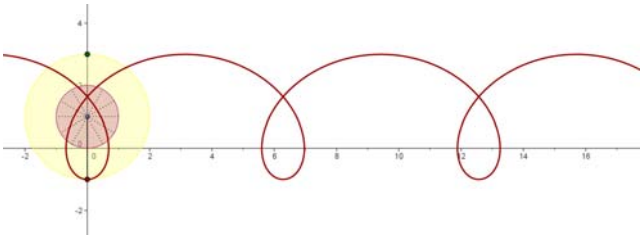
Cicloides y Trocoides\Epicicloide.ggb

Hipocicloide



Cicloides y Trocoides\Hipotrocoide.ggb

Trocoide



Cicloides y Trocoides\Trocoide_acortada.ggb

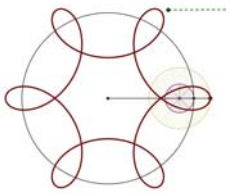
Cicloides y Trocoides\Trocoide_alargada.ggb

Epitrocoide

Cicloides y Trocoides\Epitrocoide.ggb

Cicloides y Trocoides\Epitrocoides_mn.ggb

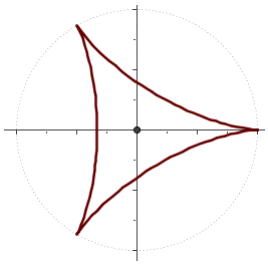
Hipotrocoide



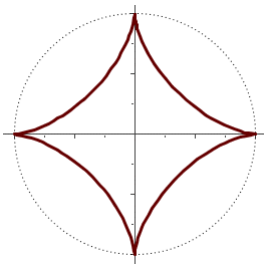
Cicloides y Trocoides\Hipotrocoide.ggb

Cicloides y Trocoides\Hipotrocoides_mn.ggb

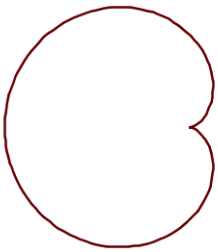
Deltoide



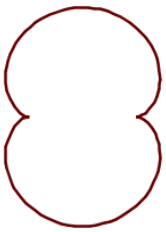
Astroide



Cardioide

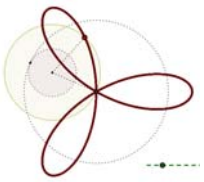
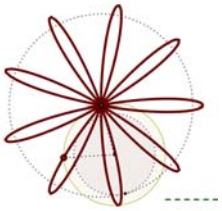
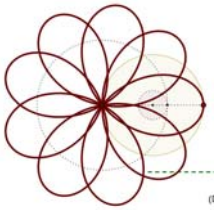


Nefroide



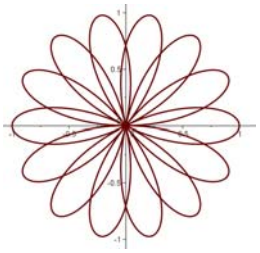
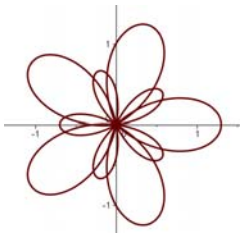
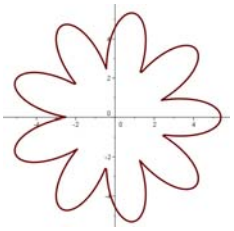
Flores

Como hipotrocoides

Flores\Flores_Hipotrocoides.ggb

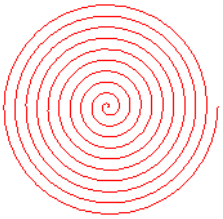
En coordenadas polares

Flores\Flores_polares_cos.ggb
Flores\Flores_polares_sin.ggb
Flores\Flores_polares_abscos.ggb

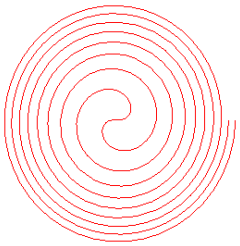
Espirales

Espiral de Arquímedes



$r = a + b\theta$

Espiral de Fermat

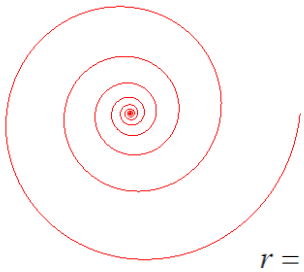


$r = \sqrt{\theta}$

Espiral hiperbólica

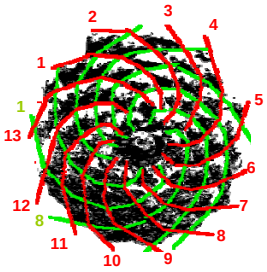
$r = \frac{a}{\theta}$

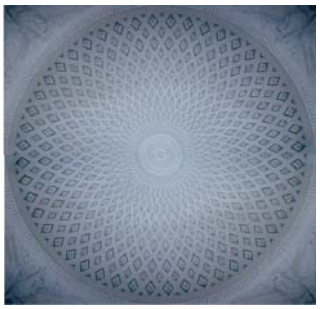
Espirales logarítmicas



$$r = ab^{\theta}$$

Mosaico Corinto

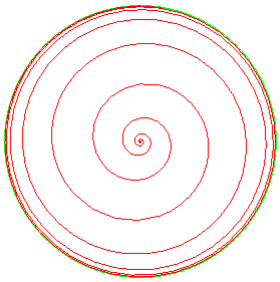




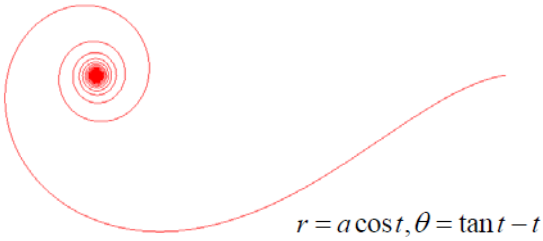
Palacio Pavlovsk, San Petersburgo

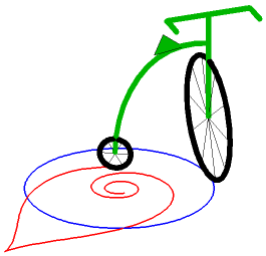



Espiral de muelle




Espiral de tractriz



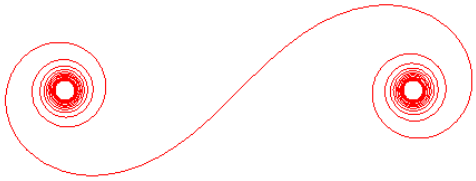






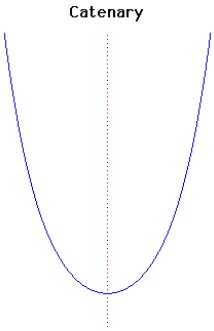
Casa Batllo, Gaudí

Clotoide



- Radioide de arcos o espiral de Cornú.
- La curvatura es proporcional a la distancia.
- Curva de transición en vías ferroviarias y carreteras.

Catenaria



Casa Batllo, Gaudí

Casa Milá, Gaudí

Gateway Arch, St. Louis, Missouri
Eero Saarinen, 1961-66

Cristobal Vila

Nature by numbers

http://vimeo.com/9953368