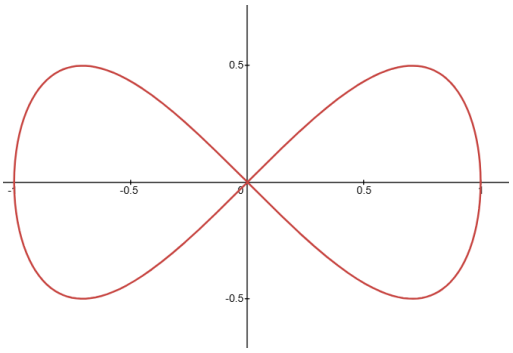
FUNZIONI GRAFICHE 😊

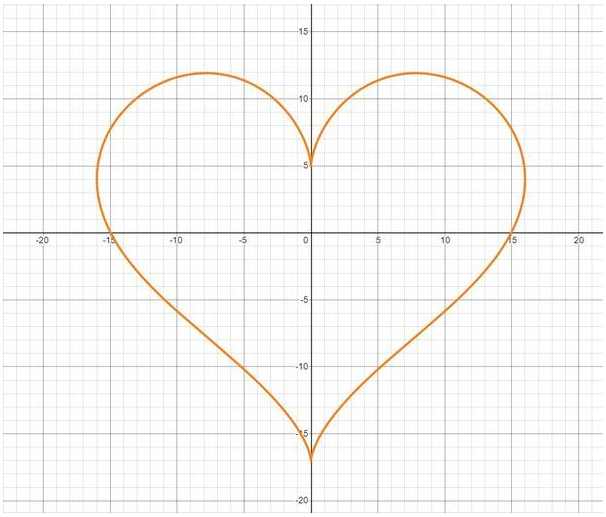
- Funzione lemniscata (curva a otto – infinito)

$$y^2 = x^2 - x^4$$



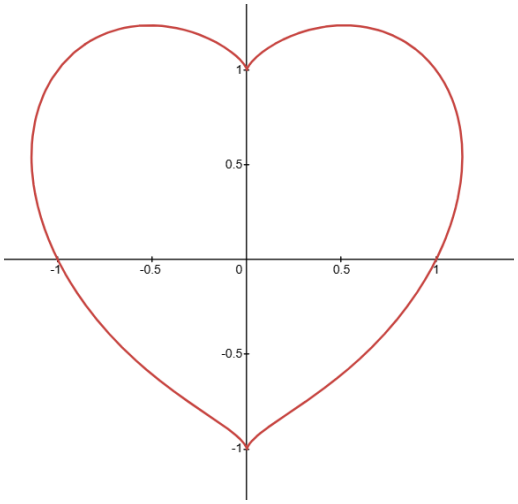
- Cardioide (cuore preciso)

$$\begin{cases} x = 16sin^3(t) \\ y = 13\cos(t) - 5\cos(2t) - 2\cos(3t) - \cos(4t) \end{cases}$$



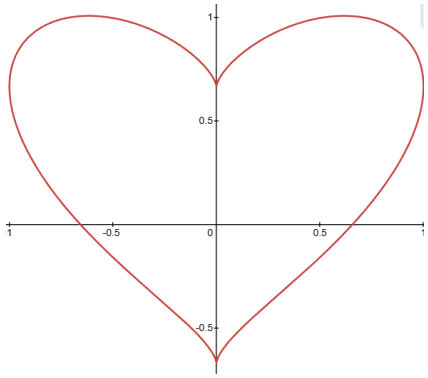
- Cardioide (cuore)

$$(x^2 + y^2 - 1)^3 - x^2y^3 = 0$$



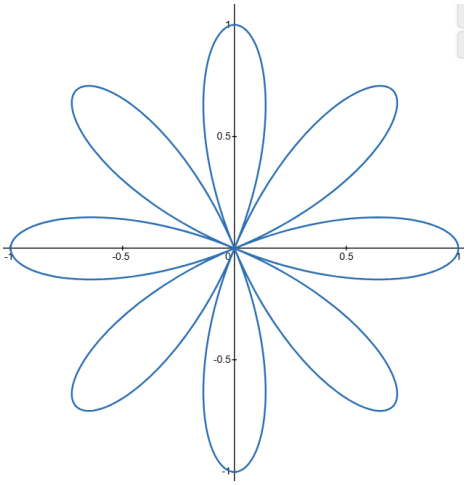
- Petalo – cuore “schiacciato”

$$x^2 + \left(\frac{3y}{2} - \sqrt[3]{x^2}\right)^2 = 1$$



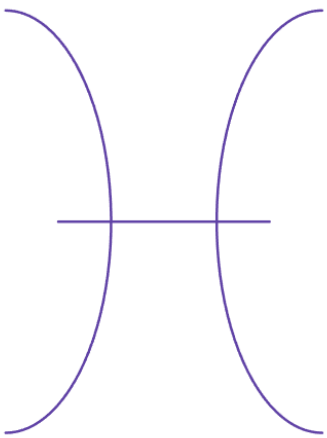
- Fiore

$$r(\theta) = \cos(4\theta)$$



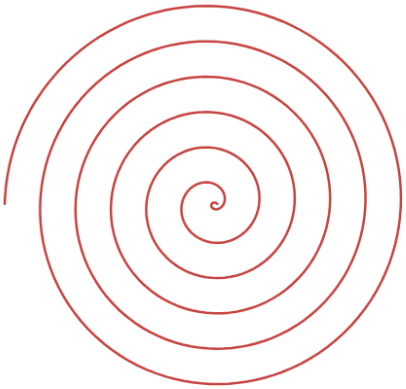
- Segno zodiacale dei Pesci

$$\begin{cases} y = 0;\ -2 < x < 2 \\ x = \pm 3 \pm 2\sqrt{1 - \frac{y^2}{16}} \end{cases}$$



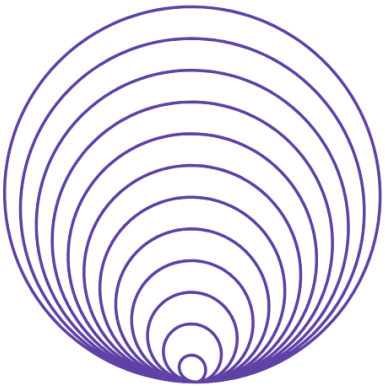
- Spirale semplice

$$r(\theta) = 1 - \theta$$



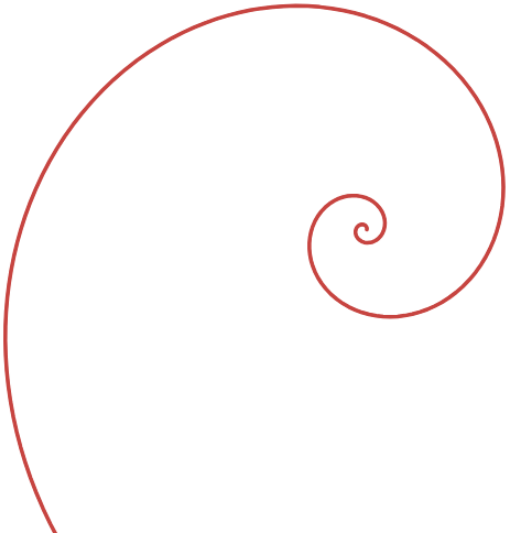
- Spirale di Archimede

$$r(\theta) = (1 + \theta)\sin(\theta)$$



- Spirale logaritmica (forma canonica)

$$r(\theta) = ae^{b\theta}$$



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$$y = \begin{cases} -(2x+9)^2 + 4 \to -\frac{11}{2} < x < -\frac{7}{2} \\ -(2x+5)^2 + 4 \to -\frac{7}{2} < x < -\frac{3}{2} \\ -4x^2 + 9 \to -\frac{3}{2} < x < \frac{3}{2} \\ -(2x-5)^2 + 4 \to \frac{3}{2} < x < \frac{7}{2} \end{cases}$$