

This note, that [was found here](#), as a part of [a collection](#) is written (completely with human hands) by [Rupadarshi Ray](#), was created on December 20, 2023 5:31:40 AM, was last modified on May 17, 2026 7:36:39 PM, and was exported on September 7, 2026 2:50:33 PM.

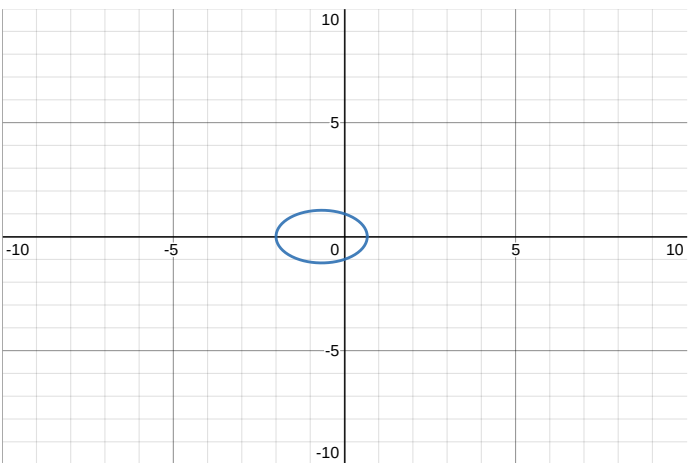
$$r(\theta) = \frac{r_0}{1 + \epsilon \cos b\theta}$$

#wiki/curve

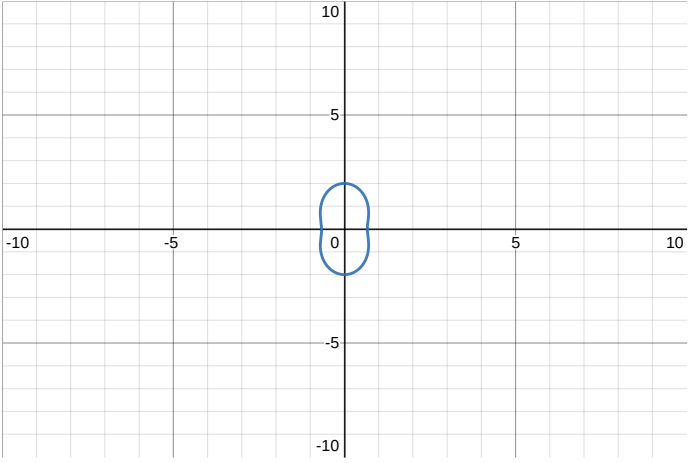
(r, θ) coordinates on $\mathbb{R}^2 \setminus \{0\}$

Example

For $r_0 = 1, b = 1, \epsilon = 0.5$



For $r_0 = 1, b = 2, \epsilon = 0.5$



Current note has 0 direct children and 0 total descendants.

- [squishy](#)

- [pow](#)

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$$\frac{r_0}{1 + \epsilon \cos b\theta}$$

And it has 28 siblings.

- [squishy](#)

- [pow](#)

- [Angle function](#)
- [Bessel functions](#)

- $\cos \sqrt{z}$

- [The complex logarithm](#)

- $\sum_{n \geq 0} z^{n!}$
- $z^3 - 3z$

- $\frac{r_0}{1 + \epsilon \cos b\theta}$

- $\cos \left(\pi \frac{p}{q} \right)$
- $\frac{\cos x^k}{x}$
- [Elliptic integrals and Jacobi elliptic functions](#)
- [The complex exponential](#) $\exp(z)$

- $\exp \left(\frac{z+1}{z-1} \right)$
- e^{-x^2}

- [Only sum terms that are multiples of N in $\mathbb{C}[[z]]$](<https://rupadarshiray.github.io/notes/YchnxQ9SF1RsuKjBntMv8a.>

- $\int \frac{1}{x^2+bx+c}$
- $\frac{\exp(z)}{1-z}$

- $\sin x$
- $\sin(x \sin(x))$
- $\frac{\sin x}{x}$
- [stock.sin x by xk](#)
- $\sin x^2$

- $\sqrt{z}$
- $\sqrt{z^2 - 1}$

- [Theta functions](#)
- [Weierstrass elliptic function](#) $\wp$
- [Weierstrass' primary factors](#)

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- $x^2 \sin \frac{1}{x}$
- $x + x^2 \sin \frac{1}{x}$