> **Info**
>
> This note, that was found here, as a part of a collection
> is written (completely with human hands) by Rupadarshi Ray,
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$$\cos \sqrt{z}$$

From

$$\cos z = \sum_{n \geq 0} \frac{(-1)^n z^{2n}}{(2n)!}$$

we obtain

$$\cos \sqrt{z} = \sum_{n \geq 0} \frac{(-1)^n z^n}{(2n)!}$$

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Current note has 0 direct children and 0 total descendants.

- squishy
  - pow
    - $\cos \sqrt{z}$

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