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∫ sqrt(1+(cos(x))^2) dx from 0 to 2

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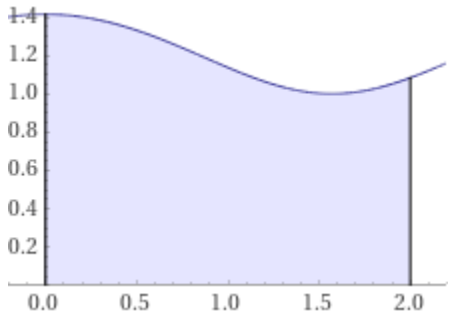
Definite integral: More digits

$$\int_0^2 \sqrt{1+\cos^2(x)}\,dx = \sqrt{2}\,E\left(2\left|\frac{1}{2}\right.\right) \approx 2.35169$$

$E(x\,|\,m)$ is the elliptic integral of the second kind with parameter $m = k^2$

Visual representation of the integral:



Indefinite integral:

$$\int \sqrt{1+\cos^2(x)}\,dx = \sqrt{2}\,E\left(x\left|\frac{1}{2}\right.\right) + \text{constant}$$

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Related Queries:

- series of sqrt(1 + cos^2(x)) at x=0
- limit of sqrt(1 + cos^2(x)) as x -> +infinity
- Inkay-like curve vs AncientMegatheriumon-like …
- use left hand end point method sqrt(1 + cos^2(x…
- d^2/dx^2 (sqrt(1 + cos^2(x)))

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