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Plot of the Jacobi ellipse ($x^2 + y^2 / b^2 = 1$, b
real) and the twelve Jacobi Elliptic functions
 $pq(u, m)$ for particular values of angle

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and parameter b . The solid curve is the ellipse, with $m=1-1/b^2$ and $u=F(\phi, m)$ where $F(\phi, m)$ is the elliptic integral of the first kind. The dotted curve is the unit circle.

Tangent lines from the circle and ellipse at $x=cd$ crossing the x -axis at dc are shown in

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Jacobi elliptic functions - Wikipedia

The three basic functions are denoted $\text{cn}(u,k)$, $\text{dn}(u,k)$, and $\text{sn}(u,k)$, where k is known as the elliptic modulus. They arise from the inversion of the elliptic integral of the first kind, $u = F(\phi, k) = \int_0^\phi dt / \sqrt{1 - k^2 \sin^2 t}$, (1) where $0 < k^2 < 1$,

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$k = \text{modu}$ is the elliptic modulus, and
 $\text{phi} = \text{am}(u, k) = \text{am}(u)$ is the Jacobi
amplitude, giving
 $\text{phi} = F^{-1}(u, k) = \text{am}(u, k)$.

Tables Of $\text{Sn } u$ $\text{Cn } u$ $\text{Dn } u$

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Jacobi Elliptic Functions -- from Wolfram
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See also: Annotations for § 22.5 and Ch.22.
Table 22.5.1 gives the value of each of the 12 Jacobian elliptic functions, together with its z -derivative (or at a pole, the residue), for values of z that are integer multiples of K , iK . For example, at $z = K + iK$, $\text{sn}(z, k) = 1/k$, $d\text{sn}(z, k) / dz = 0$. (The modulus k is suppressed throughout the table.)

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DLMF: 22.5 Special Values

Jacobian elliptic function tables; a guide to practical computation with elliptic functions and integrals together with tables of $sn, u, cn, w, dn, w, Z(w)$

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Holdings: Jacobian elliptic function tables; $1) = dc(y | m. 1)$. (19) Applying Jacobi's equations (19) to the addition formulæ (18), we get the Jacobi elliptic functions for complex $u = x + iy$ in terms of elliptic functions of real argument [Milne – Thomson, 16.21]. For brevity, here we write s, c and d for $sn,$

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cn and dn: $s(x+iy | m) = s(x | m)d(y | m)$.

Elliptic Functions And

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Table of Integrals of Jacobian Elliptic

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In complex analysis, an elliptic function is a
meromorphic function that is periodic in

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two directions. Just as a periodic function of a real variable is defined by its values on an interval, an elliptic function is determined by its values on a fundamental parallelogram, which then repeat in a lattice. Such a doubly periodic function cannot be holomorphic, as it would then be a bounded entire function, and by Liouville's theorem every

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Elliptic Functions And

Elliptic function - Wikipedia

For other tables prior to 1961 see Fletcher et al. (1962, pp. 500 – 503) and Lebedev and Fedorova (1960, pp. 221 – 223). Tables of theta functions (§ 20.15) can also be used

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to compute the twelve Jacobian elliptic functions by application of the quotient formulas given in § 22.2 .

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DLMF: 22.21 Tables

In the title, "elliptic functions" is to be understood in a general sense, as including

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elliptic integrals and theta functions; in fact, existing tables, and therefore the present Guide, relate largely to elliptic integrals.

Tables Of S_n U C_n U D_n U

Guide to Tables of Elliptic Functions

dt. $(1 - t^2)(1 - k^2t)$ While there are 12

different types of Jacobian elliptic functions

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based on the number of poles and the upper limit on the elliptic integral, the three most popular are the copolar trio of sine amplitude, $\text{sn}(u,k)$, cosine amplitude, $\text{cn}(u,k)$ and the delta amplitude elliptic function, $\text{dn}(u,k)$ where 3 .

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Also it is customary to regard Jacobian
elliptic functions as dependent on the

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modulus k , where $k^2 = m$. This leads to $\operatorname{sn}(u|k)$, $\operatorname{cn}(u|k)$, $\operatorname{dn}(u|k)$. (7) The three Jacobian elliptic functions are single-valued functions of the argument u and are doubly periodic. The numbers K and iK' given by $\int_0^1 \frac{dx}{\sqrt{1-x^2-k^2x^2}}$

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