	$F(\varphi\backslash\alpha)$	Equivalent Inverse Jacobian Elliptic Function	φ	t Substitution	$E(\varphi\backslash\alpha)$
$\cos\alpha=b/a$ $a>b$ $m=(a^2-b^2)/a^2$	**17.4.41** $a\int_0^x \frac{dt}{[(t^2+a^2)(t^2+b^2)]^{1/2}}$	$\mathrm{sc}^{-1}\left(\frac{x}{b}\middle\vert\frac{a^2-b^2}{a^2}\right)$	$\tan\varphi=\frac{x}{b}$	$t=b\ \mathrm{sc}\ v$	$\frac{b^2}{a}\int_0^x\left(\frac{t^2+a^2}{t^2+b^2}\right)\frac{dt}{[(t^2+a^2)(t^2+b^2)]^{1/2}}$
	17.4.42 $a\int_x^\infty \frac{dt}{[(t^2+a^2)(t^2+b^2)]^{1/2}}$	$\mathrm{cs}^{-1}\left(\frac{x}{a}\middle\vert\frac{a^2-b^2}{a^2}\right)$	$\tan\varphi=\frac{a}{x}$	$t=a\ \mathrm{cs}\ v$	$a\int_x^\infty\left(\frac{t^2+b^2}{t^2+a^2}\right)\frac{dt}{[(t^2+a^2)(t^2+b^2)]^{1/2}}$
	17.4.43 $a\int_b^x \frac{dt}{[(a^2-t^2)(t^2-b^2)]^{1/2}}$	$\mathrm{nd}^{-1}\left(\frac{x}{b}\middle\vert\frac{a^2-b^2}{a^2}\right)$	$\sin^2\varphi=\frac{a^2(x^2-b^2)}{x^2(a^2-b^2)}$	$t=b\ \mathrm{nd}\ v$	$ab^2\int_b^x\frac{1}{t^2}\frac{dt}{[(a^2-t^2)(t^2-b^2)]^{1/2}}$
	17.4.44 $a\int_x^a \frac{dt}{[(a^2-t^2)(t^2-b^2)]^{1/2}}$	$\mathrm{dn}^{-1}\left(\frac{x}{a}\middle\vert\frac{a^2-b^2}{a^2}\right)$	$\sin^2\varphi=\frac{a^2-x^2}{a^2-b^2}$	$t=a\ \mathrm{dn}\ v$	$\frac{1}{a}\int_x^a\frac{t^2dt}{[(a^2-t^2)(t^2-b^2)]^{1/2}}$
$\sin\alpha=b/a$ $a>b$ $m=b^2/a^2$	**17.4.45** $a\int_0^x \frac{dt}{[(a^2-t^2)(b^2-t^2)]^{1/2}}$	$\mathrm{sn}^{-1}\left(\frac{x}{b}\middle\vert\frac{b^2}{a^2}\right)$	$\sin\varphi=\frac{x}{b}$	$t=b\ \mathrm{sn}\ v$	$\frac{1}{a}\int_0^x\frac{(a^2-t^2)dt}{[(a^2-t^2)(b^2-t^2)]^{1/2}}$
	17.4.46 $a\int_x^b \frac{dt}{[(a^2-t^2)(b^2-t^2)]^{1/2}}$	$\mathrm{cd}^{-1}\left(\frac{x}{b}\middle\vert\frac{b^2}{a^2}\right)$	$\sin^2\varphi=\frac{a^2(b^2-x^2)}{b^2(a^2-x^2)}$	$t=b\ \mathrm{cd}\ v$	$a(a^2-b^2)\int_x^b\left(\frac{1}{a^2-t^2}\right)\frac{dt}{[(a^2-t^2)(b^2-t^2)]^{1/2}}$
	17.4.47 $a\int_a^x \frac{dt}{[(t^2-a^2)(t^2-b^2)]^{1/2}}$	$\mathrm{dc}^{-1}\left(\frac{x}{a}\middle\vert\frac{b^2}{a^2}\right)$	$\sin^2\varphi=\frac{x^2-a^2}{x^2-b^2}$	$t=a\ \mathrm{dc}\ v$	$\frac{a^2-b^2}{a}\int_a^x\left(\frac{t^2}{t^2-b^2}\right)\frac{dt}{[(t^2-a^2)(t^2-b^2)]^{1/2}}$
	17.4.48 $a\int_x^\infty \frac{dt}{[(t^2-a^2)(t^2-b^2)]^{1/2}}$	$\mathrm{ns}^{-1}\left(\frac{x}{a}\middle\vert\frac{b^2}{a^2}\right)$	$\sin\varphi=\frac{a}{x}$	$t=a\ \mathrm{ns}\ v$	$a\int_x^\infty\left(\frac{t^2-b^2}{t^2}\right)\frac{dt}{[(t^2-a^2)(t^2-b^2)]^{1/2}}$
$\cot\alpha=\frac{b}{a}$ $m=a^2/(a^2+b^2)$	**17.4.49** $(a^2+b^2)^{1/2}\int_b^x \frac{dt}{[(t^2+a^2)(t^2-b^2)]^{1/2}}$	$\mathrm{nc}^{-1}\left(\frac{x}{b}\middle\vert\frac{a^2}{a^2+b^2}\right)$	$\cos\varphi=\frac{b}{x}$	$t=b\ \mathrm{nc}\ v$	$\frac{b^2}{(a^2+b^2)^{1/2}}\int_b^x\frac{t^2+a^2}{t^2}\frac{dt}{[(t^2+a^2)(t^2-b^2)]^{1/2}}$
	17.4.50 $(a^2+b^2)^{1/2}\int_x^\infty \frac{dt}{[(t^2+a^2)(t^2-b^2)]^{1/2}}$	$\mathrm{ds}^{-1}\left(\frac{x}{(a^2+b^2)^{1/2}}\middle\vert\frac{a^2}{a^2+b^2}\right)$	$\sin^2\varphi=\frac{a^2+b^2}{a^2+x^2}$	$t=(a^2+b^2)^{1/2}\mathrm{ds}\,v$	$(a^2+b^2)^{1/2}\int_x^\infty\frac{t^2}{(t^2+a^2)}\frac{dt}{[(t^2+a^2)(t^2-b^2)]^{1/2}}$
$\tan\alpha=\frac{b}{a}$ $m=b^2/(a^2+b^2)$	**17.4.51** $(a^2+b^2)^{1/2}\int_0^x \frac{dt}{[(t^2+a^2)(b^2-t^2)]^{1/2}}$	$\mathrm{sd}^{-1}\left(\frac{x(a^2+b^2)^{1/2}}{ab}\middle\vert\frac{b^2}{a^2+b^2}\right)$	$\sin^2\varphi=\frac{x^2(a^2+b^2)}{b^2(a^2+x^2)}$	$t=\frac{ab}{(a^2+b^2)^{1/2}}\mathrm{sd}\,v$	$a^2(a^2+b^2)^{1/2}\int_0^x\frac{1}{(t^2+a^2)}\frac{dt}{[(t^2+a^2)(b^2-t^2)]^{1/2}}$
	17.4.52 $(a^2+b^2)^{1/2}\int_x^b \frac{dt}{[(t^2+a^2)(b^2-t^2)]^{1/2}}$	$\mathrm{cn}^{-1}\left(\frac{x}{b}\middle\vert\frac{b^2}{a^2+b^2}\right)$	$\cos\varphi=\frac{x}{b}$	$t=b\ \mathrm{cn}\ v$	$\frac{1}{(a^2+b^2)^{1/2}}\int_x^b\frac{(t^2+a^2)dt}{[(t^2+a^2)(b^2-t^2)]^{1/2}}$