## NEW FORMULA 3.511.7

The original equation is

$$
\int_{0}^{\infty} \frac{\sinh a x \sinh b x}{\cosh c x} d x=\frac{\pi \sin \frac{\pi a}{2 c} \sin \frac{\pi b}{2 c}}{c\left(\cos \frac{\pi a}{c}+\cos \frac{\pi b}{c}\right)}
$$

The change of variables $t=c x$ and replacing $a / c$ by $a$ and $b / c$ by $b$ yields the new formula

$$
\int_{0}^{\infty} \frac{\sinh a x \sinh b x}{\cosh x} d x=\frac{\pi \sin \frac{\pi a}{2} \sin \frac{\pi b}{2}}{\cos \pi a+\cos \pi b}
$$

