

FORMULA 4.382.2

$$\int_0^{\infty} \ln \left| \frac{x+a}{x-a} \right| \cos bx \, dx = \frac{2}{b} \left[\cos(ab) \left\{ \text{si}(ab) + \frac{\pi}{2} \right\} - \sin(ab) \text{ci}(ab) \right]$$