FORMULA 4.382.4

$$\int_0^\infty \ln \frac{x^2 + x + a^2}{x^2 - x + a^2} \, \sin bx \, dx = \frac{2\pi}{b} \exp\left(-b\sqrt{a^2 - \tfrac{1}{4}}\right) \sin \frac{b}{2}$$

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