

C4282

! For an efficient use of these tables, first read [HowTo.pdf](#).

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T3.40C. Integrands involving product of trigonometric functions of linear and quadratic arguments and sum of powers and square roots of $(a + bx^n)$ on the interval $(-\infty, \infty)$.

$$1. \int_{-\infty}^{\infty} \frac{\sin a\sqrt{|x|}}{x-b} \operatorname{sgn} x \, dx = \pi \left[\exp\left(a\sqrt{-b}\right) + \exp\left(-a\sqrt{|b|}\right) \right], \quad a > 0; \Im\{b\} \neq 0.$$

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