

C4282

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

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**T2.21A.** Integrands of the form  $\frac{1}{\sqrt{x^4 + 2b^2x^2 + a^4}}$  on the interval  $(y, a)$ .

$$1. \int_y^a \frac{dx}{\sqrt{x^4 + 2b^2x^2 + a^4}} = \frac{\sqrt{2}}{a\sqrt{2} + \sqrt{a^2 + b^2}} \times F \left[ \arctan \left( \frac{a\sqrt{2} + \sqrt{a^2 - b^2}}{\sqrt{a^2 + b^2}} \frac{a - y}{a + y} \right), \frac{2\sqrt{a\sqrt{2(a^2 - b^2)}}}{a\sqrt{2} + \sqrt{a^2 - b^2}} \right], \quad a > b, a > y \geq 0.$$

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