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

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T2.29A. Integrands with the fourth roots of a quadratic and a biquadratic polynomial on the interval (a, y) .

$$1. \int_a^y \frac{dx}{[(x-a)(x-b)]^{1/4}} = \sqrt{\frac{a-b}{2}} F \left[\left(\arccos \frac{a-b-2\sqrt{(y-a)(y-b)}}{a-b+2\sqrt{(y-a)(y-b)}}, \frac{1}{\sqrt{2}} \right) \right. \\ \left. - 2E \left(\arccos \frac{a-b-2\sqrt{(y-a)(y-b)}}{a-b+2\sqrt{(y-a)(y-b)}}, \frac{1}{\sqrt{2}} \right) \right] \\ + \frac{2(2y-a-b)[(y-a)(y-b)]^{1/4}}{a-b+2\sqrt{(y-a)(y-b)}}, \quad y > a > b.$$

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$$2. \int_a^y \frac{dx}{[(x-a)(x-b)]^{3/4}} = \frac{\sqrt{2}}{\sqrt{a-b}} F \left(\arccos \frac{a-b-2\sqrt{(y-a)(y-b)}}{a-b+2\sqrt{(y-a)(y-b)}}, \frac{1}{\sqrt{2}} \right), \quad y > a > b.$$

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