

C4282

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

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T2.08A. Integrands of the form $\frac{1}{\sqrt{1-x^3}}$ and $\frac{1}{\sqrt{x^3-1}}$ on the interval $(0, 1)$.

1. $\int_0^1 \frac{dx}{\sqrt{1-x^3}} = \frac{1}{\pi^{2^{4/3}} \sqrt{3}} \left\{ \Gamma\left(\frac{1}{3}\right) \right\}^3$.

2. $\int_0^1 \frac{x dx}{\sqrt{1-x^3}} = \frac{1}{\pi} \frac{\sqrt{3}}{4^{1/3}} \left\{ \Gamma\left(\frac{2}{3}\right) \right\}^3$.

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