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

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T2.56C. Integrands involving product of exponentials, trigonometric functions and powers of trigonometric functions on the interval $(0, 2\pi)$.

$$1. \int_0^{2\pi} e^{imx} \sin nx \, dx = \begin{cases} 0, & m \neq n; m = n = 0, \\ i\pi, & m = n \neq 0. \end{cases}$$

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$$2. \int_0^{2\pi} e^{imx} \cos nx \, dx = \begin{cases} 0, & m \neq n, \\ \pi, & m = n \neq 0, \\ 2\pi, & m = n = 0. \end{cases}$$

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