! For an efficient use of these tables, first read `HowTo.pdf`.

T2.43E. Integrands involving powers of trigonometric functions and liner trigonometric functions on the interval $(-\pi, \pi)$.

1. $$\int_{-\pi}^{\pi} \cos^{n-1} x \, \cos[m(x-a)]\, dx = \left[1-(-1)^{n+m}\right] = \int_{-\pi/2}^{\pi/2} \cos^{n-1} x \, \cos[m(x-a)]\, dx$$
$$= \frac{[1-(-1)^{n+m}]\,\pi \, \cos ma}{2^{n-1} n \, \mathrm{B}\left(\frac{n+m+1}{2}, \frac{n-m+1}{2}\right)}, \quad n \geq m.$$
