

Trigonometriske integraler

$$\int_{-\pi}^{\pi} \cos nx \, dx = 0$$

$$\int_{-\pi}^{\pi} \sin nx \, dx = 0$$

$$\int_{-\pi}^{\pi} \cos^2 nx \, dx = \pi$$

$$\int_{-\pi}^{\pi} \sin^2 nx \, dx = \pi$$

$$\int_{-\pi}^{\pi} \cos nx \cos mx \, dx = 0 \quad \text{for alle } n \neq m$$

$$\int_{-\pi}^{\pi} \sin nx \sin mx \, dx = 0 \quad \text{for alle } n \neq m$$

$$\int_{-\pi}^{\pi} \sin nx \cos mx \, dx = 0 \quad \text{for alle } n, m$$