

FORMULA 3.632.2

$$\int_{-\pi/2}^{\pi/2} \cos^{p-1} x \sin \left[a \left(x + \frac{\pi}{2} \right) \right] dx = \frac{\pi \sin \frac{\pi a}{2}}{2^{p-1} p B \left(\frac{p+a+1}{2}, \frac{p-a+1}{2} \right)}$$