

$$\begin{aligned}
\int \cos^2 x dx &= \frac{1}{2} \cos x \sin x + \frac{1}{2} x \\
\int \cos^3 x dx &= \frac{1}{3} \cos^2 x \sin x + \frac{2}{3} \sin x \\
\int \cos^4 x dx &= \frac{1}{4} \cos^3 x \sin x + \frac{3}{8} \cos x \sin x + \frac{3}{8} x \\
\int \cos^5 x dx &= \frac{1}{5} \cos^4 x \sin x + \frac{4}{15} \cos^2 x \sin x + \frac{8}{15} \sin x \\
\int \cos^6 x dx &= \frac{1}{6} \cos^5 x \sin x + \frac{5}{24} \cos^3 x \sin x + \frac{5}{16} \cos x \sin x + \frac{5}{16} x \\
\int \cos^7 x dx &= \frac{1}{7} \cos^6 x \sin x + \frac{6}{35} \cos^4 x \sin x + \frac{8}{35} \cos^2 x \sin x + \frac{35}{35} \sin x \\
\int \cos^8 x dx &= \frac{1}{8} \cos^7 x \sin x + \frac{7}{48} \cos^5 x \sin x + \frac{35}{192} \cos^3 x \sin x + \frac{35}{128} \cos x \sin x + \frac{35}{128} x \\
\int \sin^2 x dx &= -\frac{1}{2} \cos x \sin x + \frac{1}{2} x \\
\int \sin^3 x dx &= -\frac{1}{3} \sin^2 x \cos x - \frac{2}{3} \cos x \\
\int \sin^4 x dx &= -\frac{1}{4} \sin^3 x \cos x - \frac{3}{8} \cos x \sin x + \frac{3}{8} x \\
\int \sin^5 x dx &= -\frac{1}{5} \sin^4 x \cos x - \frac{4}{15} \sin^2 x \cos x - \frac{8}{15} \cos x \\
\int \sin^6 x dx &= -\frac{1}{6} \sin^5 x \cos x - \frac{5}{24} \sin^3 x \cos x - \frac{5}{16} \cos x \sin x + \frac{5}{16} x \\
\int \sin^7 x dx &= -\frac{1}{7} \sin^6 x \cos x - \frac{6}{35} \sin^4 x \cos x - \frac{8}{35} \sin^2 x \cos x - \frac{16}{35} \cos x \\
\int \sin^8 x dx &= -\frac{1}{8} \sin^7 x \cos x - \frac{7}{48} \sin^5 x \cos x - \frac{35}{192} \sin^3 x \cos x - \frac{35}{128} \cos x \sin x + \frac{35}{128} x \\
\int \sin x \cos x dx &= -\frac{1}{2} \cos^2 x \\
\int \sin^2 x \cos x dx &= \frac{1}{3} \sin^3 x \\
\int \sin x \cos^2 x dx &= -\frac{1}{3} \cos^3 x; \int_0^{2\pi} \sin x \cos^2 x dx = 0 \\
\int \cos x \sin^2 x dx &= \frac{1}{3} \sin^3 x; \int_0^{2\pi} \cos x \sin^2 x dx = 0 \\
\int \sin^2 x \cos^2 x dx &= -\frac{1}{4} \cos^3 x \sin x + \frac{1}{8} \cos x \sin x + \frac{1}{8} x \\
\int \sin^3 x \cos x dx &= \frac{1}{4} \sin^4 x \\
\int \sin x \cos^3 x dx &= -\frac{1}{4} \cos^4 x \\
\int \sin^2 x \cos^3 x dx &= -\frac{1}{5} \cos^4 x \sin x + \frac{1}{15} \cos^2 x \sin x + \frac{2}{15} \sin x \\
\int \sin^3 x \cos^2 x dx &= -\frac{1}{5} \sin^2 x \cos^3 x - \frac{2}{15} \cos^3 x \\
\int \sin^3 x \cos^3 x dx &= -\frac{1}{6} \sin^2 x \cos^4 x - \frac{1}{12} \cos^4 x \\
\int \sin^4 x \cos^4 x dx &= -\frac{1}{8} \sin^3 x \cos^5 x - \frac{1}{16} \cos^5 x \sin x + \frac{1}{64} \cos^3 x \sin x + \frac{3}{128} \cos x \sin x + \frac{3}{128} x \\
\int \sin^5 x \cos^5 x dx &= -\frac{1}{10} \sin^4 x \cos^6 x - \frac{1}{20} \sin^2 x \cos^6 x - \frac{1}{60} \cos^6 x \\
\int_0^{2\pi} \cos x \sin^2 x dx &= 0
\end{aligned}$$