

Evaluate the Integral

1) $\int \sin^3 x \cos^2 x dx$

2) $\int \sin^6 x \cos^3 x dx$

3) $\int_0^{\pi/2} \cos^5 x dx$

4) $\int \sin^3(mx) dx$

$$5) \int_0^{\pi/2} \cos^2 \theta d\theta$$

$$6) \int_0^{\pi} \sin^4(3t) dt$$

$$7) \int (1 + \cos \theta)^2 d\theta$$

$$8) \int x \cos^2 x dx$$

$$9) \int_0^{\pi/2} \sin^2 x \cos^2 x dx$$

$$10) \int \sin^3 x \sqrt{\cos x} dx$$

$$11) \int \cos \theta \cos^5(\sin \theta) d\theta$$

$$12) \int \cos^2 x \tan^3 x dx$$

$$13) \int \frac{1 - \sin x}{\cos x} dx$$

$$14) \int \sec^2 x \tan x dx$$

$$15) \int \sec^6 t dt$$

$$16) \int \tan^3(2x) \sec^5(2x) dx$$

$$17) \int \frac{\tan^3 \theta}{\cos^4 \theta} d\theta$$

$$18) \int_{\pi/6}^{\pi/2} \cot^2 x dx$$

$$19) \int \csc^4 x \cot^6 x dx$$

$$20) \int \csc x dx$$

$$21) \int \sin(5x) \sin(2x) dx$$

$$22) \int \sin(3x) \cos x dx$$

$$23) \int \frac{dx}{\cos x - 1}$$