

Resolver las siguientes integrales indefinidas:

$$\int \cos^3(x) \, dx$$

$$-\frac{1}{3}\cos^3(x) + \frac{2}{5}\cos^5(x) - \frac{1}{7}\cos^7(x) + C$$

$$\int x(x^2 + 3)^3 \, dx$$

$$-x \cos(x) + \sin(x) + C$$

$$\int \sin^5(x) \cos^2(x) \, dx$$

$$\sin(x) - \frac{1}{3}\sin^3(x) + C$$

$$\int x \sin(x) \, dx$$

$$\frac{1}{8}(x^2 + 3)^4 + C$$

$$\int x^4 \sqrt{x^5 + 5} \, dx$$

$$\frac{1}{2}(\cos(x) - \frac{1}{9}\cos(9x)) + C$$

$$\int \sin(4x) \cos(5x) \, dx$$

$$\frac{2}{15}(x^5 + 5)^{\frac{3}{2}} + C$$