

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

2. $\int \sin^3 x \cos^3 x dx$

3. $\int \cos^2(2t) dt$

4. $\int \sin^2 x \cos^2 x dx$

5. $\int \tan^3 x \sec^4 x dx$

6. $\int \tan^2 u \sec u du$

7. $\int \sec^4 x dx$

8. $\int \frac{x+1}{\sqrt{4+x^2}} dx$

9. $\int \sqrt{9+x^2} dx$

$$10. \int \frac{dx}{\sqrt{x^2 - 7}}$$

$$11. \int \frac{dx}{\sqrt{5 - x^2}}$$

$$12. \int \frac{dx}{x\sqrt{x^2 + 9}}$$

$$13. \int 2x \cosh(3x) \, dx$$

$$14. \int e^{2x} \sinh(5x) \, dx$$

$$15. \int \frac{dx}{(2 + \cos x)(3 + \cos x)}$$

$$16. \int \frac{2 \sin x + 3 \cos x}{4 \sin x - 2 \cos x} \, dx$$