

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. Asagidaki integralleri hesaplayiniz.

$$(a) \int \frac{\sin^3 \sqrt{x}}{\sqrt{x}} dx$$

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

$$(c) \int x \sin^3 x dx$$

$$(d) \int \cot^5 \theta \sin^4 \theta d\theta$$

$$(e) \int \cos^2 x \sin 2x dx$$

$$(f) \int \tan^2 \theta \sec^4 \theta d\theta$$

$$(g) \int \tan^5 \theta \sec^3 \theta d\theta$$