

Integrals

Moderate

Tan, Cot, Sec

1. $\int \sec^3(x) \cos(x) dx$

2. $\int \frac{\sec(x)}{\cos(x)} dx$

3. $\int 1 + \tan^2(x) dx$

4. $\int \sin\left(x + \frac{\pi}{2}\right) dx$

5. $\int \sin(\pi - x) dx$

6. $\int \frac{\cos^2(x)}{\sin^2(x)} dx$

7. $\int \cos^3(x) + \sin^2(x) \cos(x) dx$

8. $\int \cot(\theta) \sin(\theta) d\theta$

9. $\int \frac{\sec(x) \sin^2(x)}{1 + \sec(x)} dx$

10. $\int \sec^4(x) \cos^2(x) dx$

Answers**Integrals****Moderate****Tan, Cot, Sec**

1. $\tan(x) + C$

2. $\tan(x) + C$

3. $\tan(x) + C$

4. $\sin(x) + C$

5. $-\cos(x) + C$

6. $-\cot(x) - x + C$

7. $\sin(x) + C$

8. $\sin(\theta) + C$

9. $x - \sin(x) + C$

10. $\tan(x) + C$