Symbolab

Integrals

Moderate

Trig Power Multiplication

1. $\int \sec^4(x)\tan^4(x)\,dx$

2. $\int \tan^3(x)\sec^4(x)\,dx$

3. $\int \sec^5(x)\tan^3(x)\,dx$

4. $\int \tan^2(x)\sec^4(x)\,dx$

5. $\int \tan^4(x)\sec^6(x)\,dx$

6. $\int \tan^6(x)\sec^4(x)\,dx$

7. $\int \sec^4(\theta)\tan^2(\theta)\,d\theta$

8. $\int \sec^3(\theta)\tan^3(\theta)\,d\theta$

9. $\int \sec^5(x)\tan^5(x)\,dx$

10. $\int \tan^3(x)\sec^5(x)\,dx$

Answers

Integrals

Moderate

Trig Power Multiplication

1. $\dfrac{\tan^5(x)}{5} + \dfrac{\tan^7(x)}{7} + C$

2. $\dfrac{\tan^4(x)}{4} + \dfrac{\tan^6(x)}{6} + C$

3. $\dfrac{\sec^7(x)}{7} - \dfrac{\sec^5(x)}{5} + C$

4. $\dfrac{\tan^3(x)}{3} + \dfrac{\tan^5(x)}{5} + C$

5. $\dfrac{\tan^5(x)}{5} + \dfrac{2\tan^7(x)}{7} + \dfrac{\tan^9(x)}{9} + C$

6. $\dfrac{\tan^7(x)}{7} + \dfrac{\tan^9(x)}{9} + C$

7. $\dfrac{\tan^3(\theta)}{3} + \dfrac{\tan^5(\theta)}{5} + C$

8. $\dfrac{\sec^5(\theta)}{5} - \dfrac{\sec^3(\theta)}{3} + C$

9. $\dfrac{\sec^9(x)}{9} - \dfrac{2\sec^7(x)}{7} + \dfrac{\sec^5(x)}{5} + C$

10. $\dfrac{\sec^7(x)}{7} - \dfrac{\sec^5(x)}{5} + C$