

Directions: Show all work on a separate sheet of paper for full credit.

1. $\int \sin^3(\theta) \cos^4(\theta) d\theta$

2. $\int_0^{\pi/2} \sin^5(x) dx$

3. $\int_0^{\pi/2} \cos^2(\theta) d\theta$

4. $\int t \cos^5(t^2) dt$

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

6. $\int_0^{\pi/4} \sec^6(\theta) \tan^6(\theta) d\theta$

7. $\int \frac{1 - \tan^2 x}{\sec^2 x} dx$

8. $\int \cot^5(\theta) \csc^3(\theta) d\theta$

9. $\int x \sec(x) \tan(x) dx$