

Use trigonometric techniques to evaluate all these problems.

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

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

3. $\int \sec \theta d\theta$

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

5. $\int \cot \theta \csc \theta d\theta$

6. $\int \cos^3 \theta d\theta$

7. $\int \tan^2 x \sec x \, dx$

8. $\int \cos^4 x \, dx$