

For exercises 1–20, evaluate the following integrals.

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

8.  $\int \csc^4(x) \cot(x) \, dx$

2.  $\int \sin^3(x) \cos^4(x) \, dx$

9.  $\int \csc^8(x) \cot^2(x) \, dx$

3.  $\int \sin^2(x) \, dx$

10.  $\int \cot^3(x) \csc^4(x) \, dx$

4.  $\int \cos^3(x) \sin^4(x) \, dx$

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

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

12.  $\int \sin^4(x) \, dx$

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

13.  $\int \csc^3(x) \, dx$

7.  $\int \sin^5(x) \sec^6(x) \, dx$

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

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

18.  $\int \sin(13x) \sin(9x) \, dx$

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

19.  $\int \cos(11x) \sin(3x) \, dx$

17.  $\int \cos(11x) \cos(2x) \, dx$

20.  $\int (\sin(x) \cos^2(8x) - \sin^2(8x) \sin(x)) \, dx$