

Integrate each of the following.

1. $\int \sin^2(5x) dx =$ _____

2. $\int \cos^2(2x) dx =$ _____

3. $\int \sin^3(3x) dx =$ _____

4. $\int \cos^3(x) dx =$ _____

5. $\int \sin^4(x) dx =$ _____

6. $\int \cos^5(2x) dx =$ _____

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Integrate each of the following.

7. $\int \tan^2(2x) \, dx =$ _____

8. $\int \cot^2(x) \, dx =$ _____

9. $\int \tan^4(5x) \, dx =$ _____

10. $\int \cot^4(4x) \, dx =$ _____

11. $\int \sec^2(5x) \, dx =$ _____

12. $\int \csc^2(2x) \, dx =$ _____

13. $\int \sec^4(x) \, dx =$ _____

14. $\int \csc^4(x) \, dx =$ _____