

Calculus Class Worksheet #2 Unit 9 _____

Integrate each of the following.

1. $\int \sin(3x - 1) dx =$ _____

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

3. $\int \sec^2(4x + 1) dx =$ _____

4. $\int \csc^2(1 - 5x) dx =$ _____

5. $\int x \sec(4 - x^2) \tan(4 - x^2) dx =$ _____

6. $\int x^2 \csc(x^3 - 2) \cot(x^3 - 2) dx =$ _____

7. $\int \sin^3(2x) \cos(2x) dx =$ _____

8. $\int \tan^5(1 - x) \sec^2(1 - x) dx =$ _____

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

10. $\int \sec^3 x \tan x dx =$ _____

11. $\int \cot^4(-2x) \csc^2(-2x) dx =$ _____

12. $\int \csc^4(5x) \cot(5x) dx =$ _____