

1. Evaluate $\int \sec(3x) \tan(3x) dx$.

2. Evaluate $3x (x^2 + 5)^7 dx$.

3. Evaluate $\int x^2 \sqrt{2x^3 - 4} dx$.

4. Evaluate $\int \frac{e^x}{1 + e^{2x}} dx$.

5. Evaluate $\int \frac{x}{5x^2 - 3} dx$.

6. Evaluate $\int \cos(3x) e^{\sin(3x)} dx$.

7. Evaluate $\int \frac{x^3}{|x^4|\sqrt{x^8-1}} dx$.

8. Evaluate $\int \frac{e^{\tan^{-1} x}}{1+x^2} dx$.

9. Evaluate $\int \frac{e^{\tan^{-1} 3x}}{1+9x^2} dx$.

10. Evaluate $\int \tan(x) dx$.

11. Evaluate $\int \cot(5x) dx$.