

Some Possibly Tricky Integrals

1) $\int x \cot^2 x dx$

2) $\int \frac{(\ln x)^2 dx}{3x}$

3) $\int \sin^3 x \cos x dx$

4) $\int 4xe^{x^2} dx$

5) $\int \frac{1}{x^2 - 1} dx$

6) $\int \frac{1}{x^2 + 1} dx$

7) $\int xe^x dx$

8) $\int \sin x \cdot e^{\cos x} dx$

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9) $\int x \ln x dx$

10) $x \cos x dx$

11) $\int \sqrt{x} \ln e^{\sqrt{x}} dx$