

More Fun Integrals

Directions: Do the integrals, obviously.

1. $\int \sqrt{7x} \, dx$

2. $\int 5^x \, dx$

3. $\int (2 + e^{5x}) \, dx$

4. $\int \frac{3e^{3x}}{e^{3x}+1} \, dx$

5. $\int \frac{1}{x \ln x} \, dx$

6. $\int (4 \cos^2 x - 2) \, dx$

7. $\int \frac{e^x - 1}{e^x - x} \, dx$

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

9. $\int \left(x + e^{\frac{x}{3}} - \cot x \right) \, dx$

10. $\int \frac{e^x}{e^x + 7} \, dx$

11. $\int (2 - 4 \sin^2 x) \, dx$

12. $\int \frac{e^x}{\sqrt{e^x + 1}} \, dx$