

Evaluate each indefinite integral. Show your work for u and du .

1. $\int 8(8x + 3)^{10} dx$

2. $\int 5x^4 e^{x^5} dx$

3. $\int -\sin(x) \cos^8(x) dx$

4. $\int \frac{\cos(\sqrt{x})}{2\sqrt{x}} dx$

5. $\int \frac{1}{8x+3} dx$

6. $\int 10e^{10x+5} dx$

7. $\int \frac{100}{x^3} \left(\frac{1}{x^2} - 5 \right)^{99} dx$

8. $\int \frac{2\pi x}{\pi x^2 + 1} dx$