

Name:

A#:

Evaluate the following integrals:

1. $\int (3x - 2)^{20} dx$

2. $\int \frac{z^2}{\sqrt[3]{1+z^3}} dz$

3. $\int \cot x dx$

4. $\int \frac{e^x}{\sqrt{1-e^{2x}}} dx$

5. $\int_0^1 x^2(1+x^3)^4 dx$

6. $\int_1^2 x\sqrt{x-1} dx$

7. $\int_{-\pi}^{\pi} \frac{\sin x}{1+\cos^2 x} dx$

8. $\int_e^{e^4} \frac{dx}{x\sqrt{\ln x}}$