

1. Evaluate the integral: $\int \frac{2x - 1}{x^2 - 4} dx$
2. Evaluate the integral: $\int \frac{x + 1}{x^3 + 4x^2 + 4x} dx$
3. Evaluate the integral: $\int \frac{1}{x^4 - 1} dx$
4. Evaluate the integral: $\int \frac{x + 4}{(x + 1)^2(x - 1)} dx$
5. Evaluate the integral: $\int \frac{x^3}{x^2 + 4x - 5} dx$
6. Evaluate the integral: $\int \frac{1}{x + 4\sqrt{x - 3}} dx$
7. Evaluate the integral: $\int \frac{1}{x\sqrt{\sqrt{x} + 1}} dx$
8. Given that $\int \frac{dx}{x^2 - a^2} = \frac{1}{2a} \ln \left| \frac{x - a}{x + a} \right| + C$, evaluate $\int \frac{1}{x^2 + 4x - 5} dx$