

Name : _____

1. Evaluate $\int_0^8 \frac{1}{\sqrt[3]{x}} dx$.

2. Evaluate $\int_0^{\frac{\pi}{2}} \sec x dx$.

3. Evaluate $\int_0^5 \frac{x}{x-2} dx$.

4. Use either (direct) Comparison Theorem or (limit) Comparison Theorem to determine whether the integral $\int_1^{\infty} \frac{x}{x^3+1} dx$ is convergent or divergent.