

1. Evaluate $\int \frac{\sqrt{x^2 - 16}}{x} dx$.

2. Evaluate $\int_{\sqrt{2}}^2 \frac{1}{t^3 \sqrt{t^2 - 1}} dt$.

3. Evaluate $\int \frac{x^3}{\sqrt{x^2 + 1}} dx$.

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

5. Evaluate $\int_{-4/5}^{-2/5} \frac{\sqrt{25 - x^2}}{x} dx$.

6. Evaluate $\int \frac{\sqrt{y^2 + 9}}{y^4} dx$.

7. Evaluate $\int \frac{1}{x^2 \sqrt{4 - 9x^2}} dx$.