

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 $\int \frac{\sqrt{y^2 + 9}}{y^4} dy.$

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