

微積分作業2

March 13, 2026

1 Find the indefinite integral.

$$\int \frac{4}{x^2 \sqrt{16 - x^2}} dx$$

2 Use partial fractions to find the indefinite integral.

$$\int \frac{5x - 2}{(x - 2)^2} dx$$

3 Decide whether the integral is improper. Explain your reasoning.

$$\int_1^2 \frac{dx}{x^3}$$