

M1B/Schoenbrun Section 5.3: Indefinite Integrals

Find the indefinite integral or compute the definite integral EXACTLY

$$1) \int_1^4 \sqrt{x} \, dx$$

$$2) \int_{-2}^3 (x+1)(x-1) \, dx$$

$$3) \int_{-1}^3 |(x+1)(x-1)| \, dx$$

$$4) \int \frac{\cos(x)}{\sin(x)^5} dx$$

$$5) \int \frac{t^5 - 4t^3 + t^2 - 8t + 5}{t^2} dt$$

$$6) \int \frac{e^x}{\sqrt{1 - e^{2x}}} dx$$