

Indefinite Integral (Antiderivative) Exercises: Tangent Substitution

Indefinite Integrals Exercise 4.1 : $\int \frac{1}{x^2 \sqrt{x^2 + 4}} dx$

Indefinite Integrals Exercise 4.2 : $\int \frac{\sqrt{1 + x^2}}{x^2} dx$

Indefinite Integrals Exercise 4.3 : $\int \frac{x^3}{\sqrt{x^2 + 9}} dx$

Indefinite Integrals Exercise 4.4 : $\int \frac{x^3}{(4x^2 + 9)^{3/2}} dx$

Indefinite Integrals Exercise 4.5 : $\int \frac{1}{x\sqrt{x^2 + 3}} dx$

Indefinite Integrals Exercise 4.6 : $\int \frac{x}{(x^2 + 4)^{5/2}} dx$

Indefinite Integrals Exercise 4.7 : $\int \frac{1}{(x^2 + 2x + 2)^2} dx$

Indefinite Integral (Antiderivative) Exercises: Sine & Secant Substitution

Indefinite Integrals Exercise 4.8 : $\int \frac{\sqrt{9-x^2}}{x^2} dx$

Indefinite Integrals Exercise 4.9 : $\int \frac{1}{\sqrt{x^2-4}} dx$

Indefinite Integrals Exercise 4.10 : $\int \frac{x}{\sqrt{3-2x-x^2}} dx$

Indefinite Integrals Exercise 4.11 : $\int x^3 \sqrt{16-x^2} dx$

Indefinite Integrals Exercise 4.12 : $\int \frac{1}{x^2 \sqrt{25x^2 - 9}} dx$

Indefinite Integrals Exercise 4.13 : $\int e^t \sqrt{16 - e^{(2t)}} dt$

Indefinite Integrals Exercise 4.14 : $\int u^2 \sqrt{a^2 - u^2} du$

Indefinite Integrals Exercise 4.15 : $\int \sqrt{u^2 - a^2} du$