

Problems - Practice Integrals

Evaluate the following integrals.

(1)

$$\int_0^{\infty} \frac{dx}{x^2 + 4}$$

(No need to simplify the answer.)

(2)

$$\int_0^{\infty} \frac{dx}{x^3 + 1}$$

(Come back along angle $\frac{2\pi}{3}$).

(3)

$$\int_0^{\infty} \frac{x dx}{x^3 + 1}$$

(Come back along angle $\frac{2\pi}{3}$).