

Improper Integrals Worksheet

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1 Exercises

I. Evaluate the following improper integrals

a. $\int_1^{\infty} \frac{dx}{1+x^2}$

b. $\int_0^{\pi/2} \tan(x) dx$

c. $\int_{-\infty}^{\infty} x e^{-x^2} dx$