

Big Project

The Right of Einstein

October 4, 2018

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Abstract

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1 Introduction

We choose the following.

$$x = r \cos \varphi \quad y = r \sin \varphi$$

Then we do get

$$r = \sqrt{x^2 + y^2} \quad \varphi = \arctan \frac{y}{x}$$

The result is given by

$$\begin{aligned} \int_{-\infty}^{\infty} e^{-x^2} dx &= \sqrt{\int_0^{\infty} \int_0^{2\pi} e^{-r^2} r d\varphi dr} \\ &= \sqrt{\pi} \end{aligned}$$

2 Background

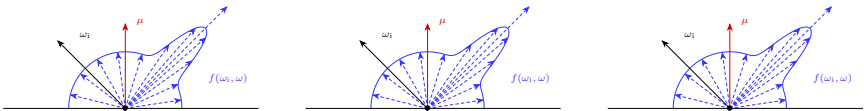


Figure 1: test caption

3 Results

Table 1: Test table

x	e^x	$\sin x$	$\cos x$
0	1	0.0175	0.9998
1	e	$\sin(1)$	$\cos(1)$
2	e^2	$\sin(2)$	$\cos(2)$
3	e^3	$\sin(3)$	$\cos(3)$