Trying to Create a Mathematical Expression

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Abstract: *In this paper, I will demonstrate my observation with an equation consisting of e, and π*

Keywords: Equation: A mathematical expression/statement with an *equal* sign.

e: e is a mathematical constant that is approximately equal to 2.71828…, that is the base of the natural logarithm and exponential function.

1. Introduction

In this paper, I will demonstrate my observation with an equation consisting of *e[1]*, and π.

2. Work

$$e + \sqrt{\frac{\pi}{17.5351}} \approx \pi$$

$$e + \sqrt{\frac{\pi}{\frac{175351}{10000}}} \approx \pi$$

$$e + \sqrt{\pi \times \frac{10000}{175351}} \approx \pi$$

$$e + \sqrt{\pi} \times \sqrt{\frac{10000}{175351}} \approx \pi$$

$$e + \sqrt{\pi} \times \frac{100}{\sqrt{175351}} \approx \pi$$

On taking $\sqrt{175351} = 418.749328358$

$$e + \sqrt{\pi} \times \frac{100}{418.749328358} \approx \pi$$

3. Proof (Approximating values)

$$7182818284 + 1.7724538509 \times \frac{100}{418.749328358} \approx 3.14$$

$$14155... \approx 3.14159...$$

4. Conclusion

In summary, I have tried to create an equation in mathematics roughly equal to pi.

References

e discovered by Jacob Bernoulli in 1685, named after Leonard Euler

Author Profile

Rishikesh Biswas, a superordinary 8th grader in India, has contributed little to the field of mathematics by doing nothing much by just publishing six research papers (excluding this one) and two books. Besides that, the author plays tabla (Indian Classical Musical Instrument) and has a national scholarship in it from the Ministry of Culture. The author has played chess in nationals two times as well.