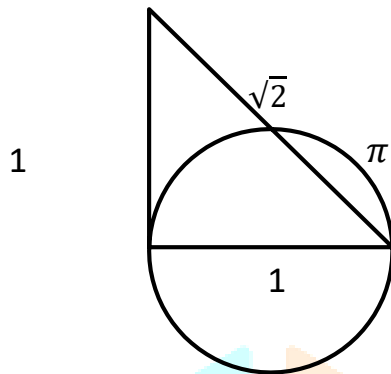


JAGAN MOHAN REDDY THEOREM TO DERIVE

THE EXACT π (1553rd Proof)

For many Centuries great mathematicians such as Archimedes, Isaac Newton, S. Ramanujan have tried to find the **exact** value to π . They could not succeed. Here is the exact π obtained by the grace of God after my struggle of 50 years (1972 – 2022).



Side = Diameter = $d = 1$

Circumference = πd

Perimeter of triangle = $2 + \sqrt{2}$

When diameter is 1, $\pi d = \pi \times 1 = \pi$

The circumference is also equal to π .

New Theorem

*“1/4th of Perimeter of triangle – subtracted – 4 diameters is equal to the **exact** circumference (= π) of circle”.*

$$4 \text{ diameters} - \frac{\text{Perimeter of triangle}}{4} = \text{Circumference}(\pi)$$

$$(4 \times 1) - \frac{2 + \sqrt{2}}{4} = \pi$$

$$\frac{16 - (2 + \sqrt{2})}{4} = \pi$$

$$\pi = \frac{14 - \sqrt{2}}{4} = 3.146446609 \dots \dots \dots$$

A Note: My 50 – year work is found 1) 70 + published papers in different Journals of Mathematics/Science/Astronomy 2) In my profile in the net **Sarva jagannadhaReddy – ResearchGate** and 3) SV University Library, Tirupati under the title **Pi of the Circle** in 23 Volumes.

This Paper is dedicated to the Honourable Chief Minister **Sri Y.S. Jagan Mohan Reddy Garu** on his Birth Day for his admiring Administration. He is the man of infinite courage, wisdom and love for people. Hence this paper is called in his Honour.

R. Sarva Jagannadha Reddy, Retd. Zoology Lecturer, Tirupati, 9494724403, 21, December 2022.

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