

Circle Finds Diagonal Of Square (Astounding No Pythagorean Theorem)

R. Sarva Jagannadha Reddy

Date of Submission: 18-10-2023

Date of Acceptance: 28-10-2023

I Square ABCD

Side = $1 = d = AB$

Diagonal = $\sqrt{2} d$

II Isosceles right Triangle DAB

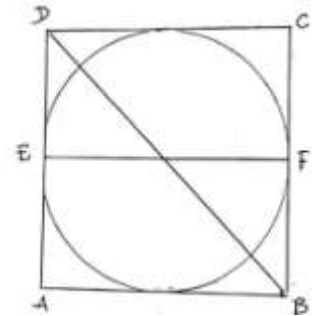
Side = $AB = 1 = d$

Hypotenuse = $BD = \sqrt{2} d$

III Circle

Diameter = $EF = AB = 1 = d$

Circumference = πd



For the last 2500 years since Pythagoras the BD length is obtained applying Pythagorean theorem. And this is the only one method to find BD.

SECOND METHOD

I calculate now BD length using circle. How? $BD = \sqrt{2} d$

Statement:

“4 times of circumference subtracted 14 diameters (sides of square, triangle) is equal to diagonal / hypotenuse (BD)”.

$$14 d - 4 \pi d = \text{Diagonal / hypotenuse}$$

where π is true π (which is EXACT) called Reddy $\pi : 1/4(14 - \sqrt{2}) = 3.1464466094$

$$14d - \left(4 \times \frac{14 - \sqrt{2}}{4} \right) d = \sqrt{2} d$$

Pythagorean theorem supports the Reddy π as the true and exact π .