PYTHAGORAS V/S POTHAYNAR

Avanti Akut VIII

VEDIC MATHS Project

INTRODUCTION

Pythagorous – Greek philosopher & mathematician

Pothaynar – Tamil poet & mathematician

LIFE

Pythagoras

- Pythagoras was born in Samos and went to Egypt and Babylon as a young man.

- Pythagoras is thought to have received most of his education in the Near East

Pothaynar

- Pothaynar was born in a tamil home before common era.

- He grew up to be a poet and mathematician.

RESEARCH

Pythagoras

- Pythagoras was credited with many discoveries, including the Pythagorean tuning, the five regular solids etc.

- The Theory of Proportions, the sphericity of the Earth, and the identity of the morning and evening stars as the planet Venus are also some of them .
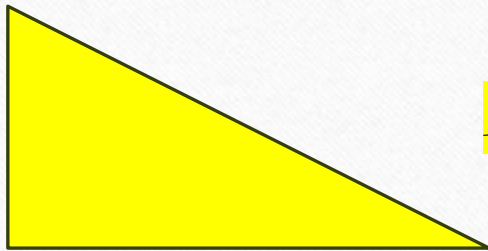
Pothaynar

- Pothayanar, an ancient Tamil Siddhar, is known for his contributions to Siddha medicine and Tamil literature.

- . He made significant advancements in holistic health practices using herbs, minerals, and animal products

RESEARCH ABOUT RIGHT ANGLED TRIANGLE

Pythagoras

- Pythagoras discovered that in a right angled triangle, base^2 + height^2 =hypotunese^2

$$A^2 + B^2 = C^2$$

Pothaynar

- Much before Pythagoras, Pothaynar gave a QUATRAIN OF 4 LINES .

1) Divide the horizontal into 8.

2) Delete 1 portion & add remaining to ½ of vertical.

3) Result is the hypotenuse.

4) $7A/8 + B/2 = C$
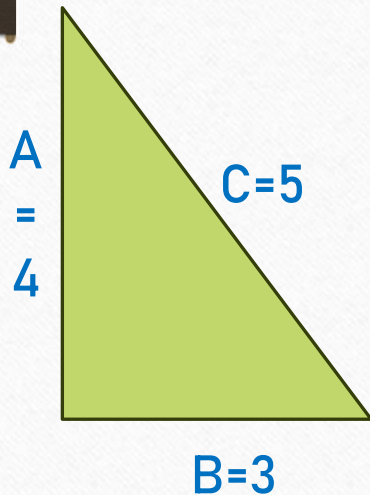
PROOF ABOUT RIGHT ANGLED TRIANGLE

Pythagoras

$$A^2 + B^2 = C^2$$

$$= 4^2 + 3^2 = 5^2$$

$$= 16 + 9 = 25$$

$$= \text{root } 25 \text{ i.e. } 5.$$

Pothaynar

$$7A/8 + B/2 = C$$

$$= 7 \times 4 / 8 + 3 / 2 = 5$$

$$= 28/8 + 3/2 = 5$$

$$= 28/8 + 12/8 = 5$$

$$= 40/8 = 5$$

A = 4

C = 5

B = 3

Hence, PROVED

CONCLUSION

- Pythagoras was a dude who did a lot of math and philosophy stuff.

- They even had special numbers that made right triangles.These are called *Pythagorean triples*

- But they should really be called Babylonian or Egyptian triples.

- Therefore, Pythagoras was not the only person to discover right angled triangle theorem.

- Pothayanar must have been a great mathematician, who got lost like fruit hidden in the foliage of the tree.

- The great discoveries of the Greeks scientists and mathematicians helped the humanity because of the valour with which they conquered then known world.

- Unfortunately, not only the great intellectuals but also their findings were lost to the world.

SO, WE CONCLUDE THAT IT WAS NOT JUST ONE PERSON;BUT MANY INDIANS,GREEKS, BABYLONIANS AND EGYPTIANS WHO GAVE THEIR IMMENSE CONTRIBUTION IN THIS BRANCH OF GEOMETRY !!!!

Thank You