#### **Module MATHS**

#### **Worksheet for students**



# Pythagorean and Euclidean theorem fragments of Ancient Mathematics

Task:

Say aloud Pythagorean and Euclidean theorem. Prove the theorems with help of some basic tools.

#### Some facts from history:

#### Pythagoras of Samos (570 - 510 B.C.)

Pythagoras was born on Samos island. He was a Greek philosopher and mathematician. He is known as "father of numbers ". His students called him "sofos", which means a wise man. It is said, that Pythagoras responded to call him rather "philosofos" (lover of wisdom).

#### **Euclid (325 – 260 B.C.)**

Euclid spent most of his life in Alexandria in Egypt. He was a Greek mathematician. Archimedes was one of his students. His main masterpiece is the book Basics (Stoicheia). It contains 13 books written in style "theorem – proof". The books start with ten basic postulates, which defined Euclid's geometry. The book is the most successful mathematical book of all times -in fact, it was used more than 2 000 years.









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Exercise 1:	Pythagorean theorem
a)	Write down the version of Pythagorean theorem.
b)	Prove Pythagorean theorem with help of some tools provided by your teacher.









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Exercise 2:

**Euclidean theorem** 



a)	Write down the version of Euclidean theorem about the leg.
b)	Write down the version of Euclidean theorem about the height.
c)	Prove Euclidean theorem about the leg with help of some tools provided by your teacher. Draw and write down the proof scheme. You can continue with the next theorem.







