Last Name : ……………………………………… First Name : ………………………………….. Group : ……..

Exercise 1: (10pts) 1. Read the text and put the following words in the correct place:

understood , attempt , roughly , first , triangles

> Today we almost take it for granted that mathematics provides a key to the underlying laws of nature. The ……….……. recorded systematic thinking along those lines comes from the Pythagoreans, a rather mystical cult dating from ………..…… 600BC to 400BC. Its founder, Pythagoras, is well known mainly because of his celebrated theorem about *right-angled*………………..., but we don't even know whether Pythagoras proved it. We know more about the Pythagoreans' philosophy and beliefs. They …………………...that mathematics is about *abstract concepts*, not reality. However, they also believed that these abstractions were embodied in 'ideal' concepts, existing in some strange realm of the imagination, so that, for instance, a circle drawn in sand with a stick is *a* flawed …………………to be an ideal circle, perfectly round and infinitely thin.

1. find words in the text that mean the following:

damaged	Registered	for example	Notions	bizarre

Exercise 2: (5pts) Put the following words in the table to form pairs that have meaning:
members , source , angle , diagram , figure , blow , function , number , concepts , circle

abstract	prime	unit	cult	exact
body	right	trigonometric	commutative	geometric

Exercise 3: (5pts) Match these terms with their definitions.

1. an irrational number
2. segment
3. ratio
4. chord
5. quadrilateral

a) a part of a line or curve between two points.
b) a polygon having four sides.
c) a quotient of two numbers or quantities.
d) a straight line connecting two points on a curve or curved surface.
e) any real number that cannot be expressed as the ratio of two integers.

Exercise 1: (10pts) 1. Read the text and put the following words in the correct place:

> Today we almost take it for granted that mathematics provides a key to the underlying laws of nature. The **first** recorded systematic thinking along those lines comes from the Pythagoreans, a rather mystical cult dating from **roughly** 600BC to 400BC. Its founder, Pythagoras, is well known mainly because of his celebrated theorem about *right-angled* **triangles** , but we don't even know whether Pythagoras proved it. We know more about the Pythagoreans' philosophy and beliefs. They **understood** that mathematics is about *abstract concepts*, not reality. However, they also believed that these abstractions were embodied in 'ideal' concepts, existing in some strange realm of the imagination, so that, for instance, a circle drawn in sand with a stick is *a* flawed **attempt** to be an ideal circle, perfectly round and infinitely thin.
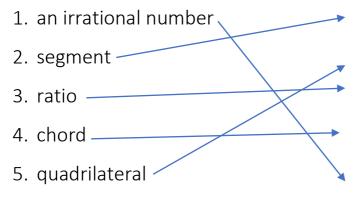
2. find words in the text that mean the following:

damaged	Registered	for example	Notions	bizarre
flawed	recorded	for instance	concepts	strange

Exercise 2: (5pts) Put the following words in the table to form pairs that have meaning:

abstract	prime	unit	cult	exact
concepts	number	circle	members	source
body	right	trigonometric	commutative	geometric
blow	angle	function	diagram	figure

Exercise 3: (5pts) Match these terms with their definitions.

1. an irrational number
2. segment
3. ratio
4. chord
5. quadrilateral

a) a part of a line or curve between two points
b) a polygon having four sides
c) a quotient of two numbers or quantities
d) a straight line connecting two points on a curve or curved surface
e) any real number that cannot be expressed as the ratio of two integers