

## History of Mathematical Ideas Quiz 2

Name: \_\_\_\_\_

You have 10 minutes to complete this quiz. If you have a question raise your hand and remain seated. In order to receive full credit your answer must be **complete**, **legible** and **correct**. Show your work, and give adequate explanations.

Define the following words and phrases.

1. *rational point* (of a plane curve).

A *rational point* is a point whose coordinates are rational numbers.

2. *Pythagorean triple*.

A *Pythagorean triple* is a triple  $(a, b, c)$  of positive whole numbers satisfying  $a^2 + b^2 = c^2$ .

3. *commensurable*.

Segments  $a$  and  $b$  are *commensurable* if they are “measured by the same standard”, which means that there is a segment  $c$  and positive integers  $m$  and  $n$  such that  $|a| = m|c|$  and  $|b| = n|c|$ .