

History of Mathematical Ideas
Quiz 10

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.

1. State Bézout's Theorem.

Bézout's Theorem. Two plane algebraic curves in \mathbb{CP}^2 of degrees m and n , which have no common component, will intersect in exactly mn points, provided intersection points are counted with the appropriate multiplicities.