

Quiz #3
Mathematics 140—Applied Calculus
Dr. Peratt

Directions: Read the following short articles (available on the course web page) and answer the questions below.

1. From “A Prayer for Archimedes,” Science News, October 3, 2007:
 - (a) Behind the prayer written on the parchment, there were how many texts that appear in no other copy of Archimedes’ works?

 - (b) What was the title of the one that had special historical significance?

 - (c) What problem was Archimedes trying to solve in this manuscript?

 - (d) Briefly describe the difference between *potential infinity* and *actual infinity*, including which one was used to approximate quantities arbitrarily closely, but not calculate them exactly.

2. From “Jesuits May Have Helped Newton to ‘Discover’ Calculus,” Manchester University, August 13, 2007.
- (a) According to the author of the article, what little known school in southwest India is responsible for the development foundational Calculus concepts?
 - (b) What particular mathematical discovery was made by this school?
 - (c) The author lists many reasons to believe this discoveries by this school were brought back to the West via Jesuit missionaries. List two of those reasons.