

Presentation 1

In the entry on "Quaternion" at www.wikipedia.org read sections 1, 2.1, 10.

The goal of the presentation is to explain what the quaternions are, and their relationship to the complex numbers. Your presentation should include

- A description of the quaternions, including how they are added and multiplied. This includes explaining how multiplication is non-commutative.
- A discussion of the history of the quaternions.
- At LEAST one of
 - Matrix representation of quaternions
 - Cayley-Dickson Construction
 - Generalizations of quaternions (octonions, sedenions, ect.)

You should also feel free to expand on the above in any directions you would like (so long as they are related to the topic).

If you have any questions regarding the presentation feel free to e-mail your TA or Dr. Ackerman.