

**Quiz 4. February 11, 09. Name**

1. Draw a careful diagram of the vertical cross section of the dome of the Hagia Sophia (through the central axis) along with the forces (and their components) that are operative at the base of the dome. Include relevant numerical data for the dome.

2. Explain why the base of the dome of the Hagia Sophia is now an oval rather than a circle. Discuss the aspects of the basic structure of the church that are relevant within the explanation.

3. What is a squinch and what structural role does it play?