

**Quiz 5. February 18, 09. Name**

1. Which buildings provide evidence of Islamic influences and Byzantine influences on the architecture of Venice. Describe some of the elements of these buildings that exhibit these influences.

2. Describe the basic structural scheme (along with its components) of a typical Gothic cathedral. Please use sketches to illustrate.

3. The diagram below shows a simple truss within a wooden roof structure. The load  $L$  is 5,000 pounds and the angle  $\alpha$  is  $25^\circ$ . Describe the forces acting at the point  $A$ . Why is the horizontal beam  $AB$  under tension? Compute this tension.

