

UNIVERSITY of NOTRE DAME  
School of Architecture

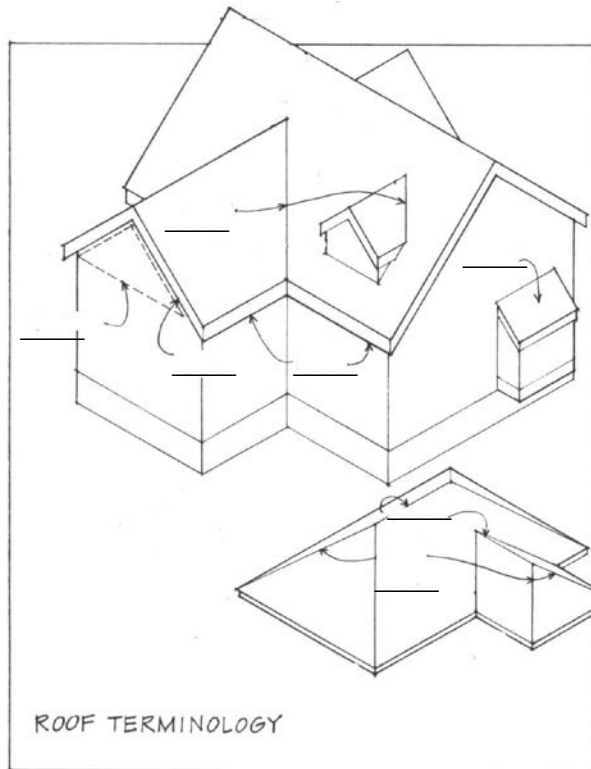
**BUILDING TECHNOLOGY I / ARCH 20411 & ARCH 60411**

September 20, 2012

**QUIZ # 3** (30 POINTS)

1. Choosing from the terms listed below, please fill in the blanks: (use each term once; 7 points):

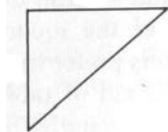
- A. SHED
- B. EAVE
- C. MANSARD
- D. CRICKET
- E. PURLIN
- F. VALLEY
- G. RIDGE
- H. GABLE
- I. HIP
- J. RAKE



2. The following symbol is used to describe the \_\_\_\_\_ of a roof:

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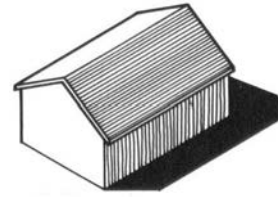
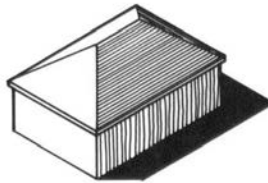
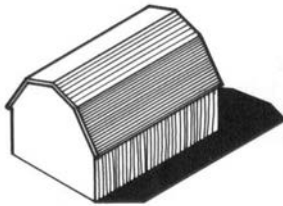
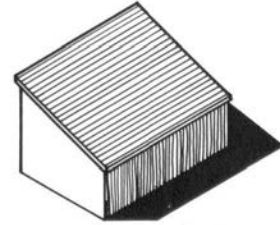
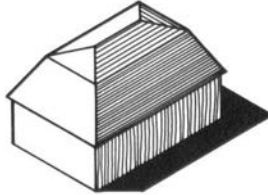
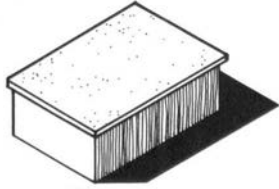
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3. Per your answer for question #2, please describe a roof designated with the symbol above, using the common ratio format: \_\_\_\_\_ : \_\_\_\_\_

4. TRUE or FALSE: Compared to the vertical surfaces of a building, a building's roof system is exposed to less direct dynamic and inorganic exposure.

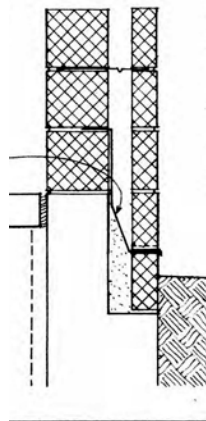
5. Name those roof shapes! (6 points)



6. Which of the following are described as DEAD loads that a roof must be designed to support:

- |                         |                 |                         |
|-------------------------|-----------------|-------------------------|
| a. Maintenance Traffic  | d. Slate Tiles  | g. All loads listed     |
| b. Insulation           | e. Loose Debris | h. All loads, but B     |
| c. Mechanical Equipment | f. Rafters      | i. All loads, but A & E |

7. Name the masonry wall type depicted below: \_\_\_\_\_



8. Fill-in the blanks above. Indicate location of the structural wythe, masonry cladding, concealed flashing, weep holes, and airspace. (1 point each)
9. Name the two OTHER common masonry wall types discussed in lecture (2 points):
  - 1.
  - 2.
10. TRUE or FALSE: The introduction of an empty cavity into a masonry wall will provide sufficient insulation for a building located in a climate with a sustained cold season.
11. Name the three types of wood frame wall construction discussed in lecture (1 point each):
  - 1.
  - 2.
  - 3.
12. Of the three primary assemblies that all buildings share, which assembly is subject to the effects of weather more than any other building component? \_\_\_\_\_