

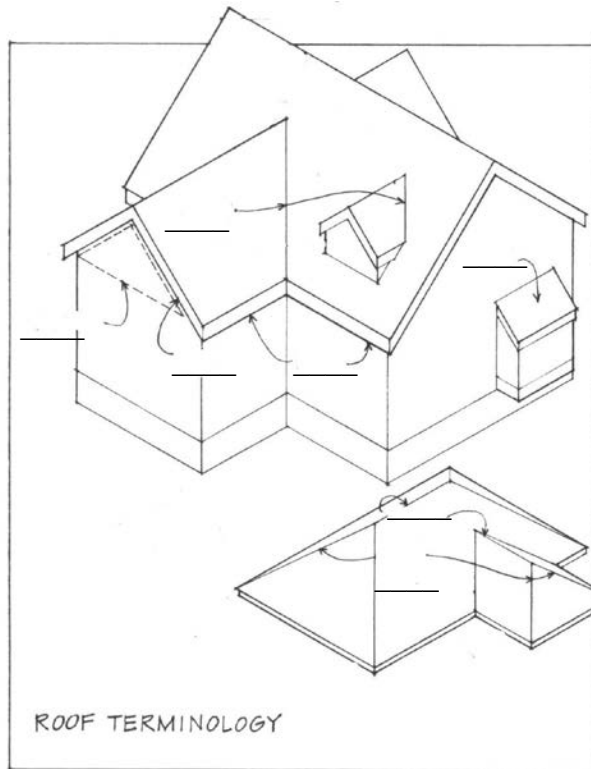
**BUILDING TECHNOLOGY I / ARCH 20411 & ARCH 60411**

November 10, 2011

**QUIZ # 9**

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

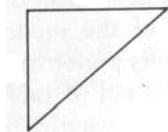
- A. SHED
- B. EAVE
- C. MANSARD
- D. CRICKET
- E. PURLIN
- F. VALLEY
- G. RIDGE
- H. GABLE
- I. HIP
- J. RAKE



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

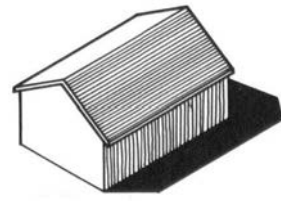
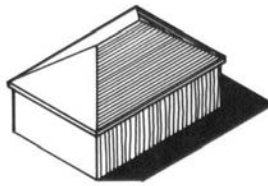
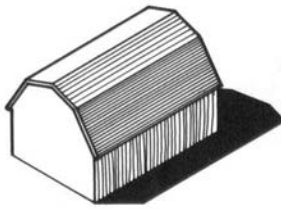
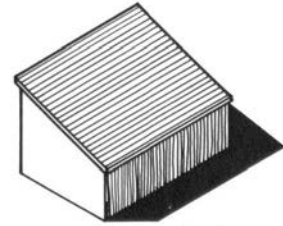
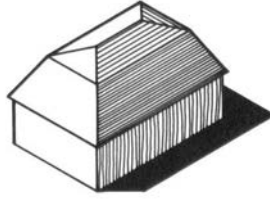
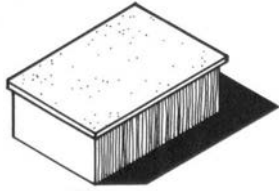
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3. Per your answer for question #2, please describe a roof designated with the symbol above, using the common ratio format: \_\_\_\_\_ : \_\_\_\_\_

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. A secondary framing member that spans across the slope of a pitched roof to support the roof decking is called a \_\_\_\_\_.
6. Name those roof shapes! (6 points)



7. What is typically installed to prevent moisture from collecting in the underside of a roof system and increasing the potential for decay of the structure?
  - a. Batt Insulation
  - b. Plywood Sheathing
  - c. Cementitious Fiber-board
  - d. Polyethylene Sheeting
8. Which of the following are described as DEAD loads that a roof must be designed to support:
  - a. Maintenance Traffic
  - b. Insulation
  - c. Mechanical Equipment
  - d. Slate Tiles
  - e. Loose Debris
  - f. Rafters
  - g. All loads listed
  - h. All loads, but B
  - i. All loads, but A & E

BONUS (1 POINT): Describe the primary difference(s) between a heavy-timber truss roof framing system and an engineered wood truss framing system: