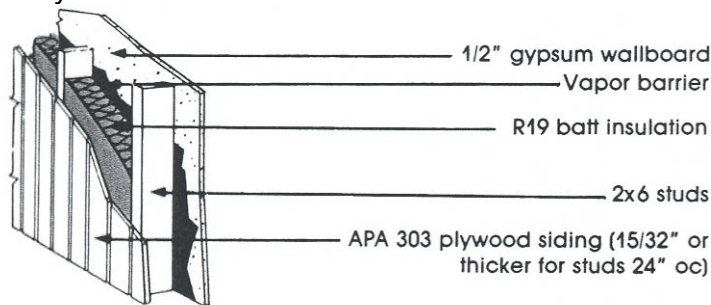


Homework Assignment #7

The following penalties will be levied for late submissions: - 10 points for the first day and -5 point for each additional day of lateness up to the return date.

- 1) (12 pts) List at least 6 different operating systems that can be in a house. Give an example of an item that would be considered part of the system.
- 2) (12 pts) Calculate the heat loss leaving bedroom 3. Assume that the wall is 8' high and the wall cross section is below. The internal house temperature is 70° F while the outside temperature is 5° F. Each window is a triple pane insulated glass with a ¼" air space and has a 3' by 4' dimension.



- 3) (6 pts) List and explain each of the different type of water treatments that can be used in a house. Be sure to explain the positive and negative aspects of each type of water treatment.
- 4) (4 pts) Describe the difference between aerobic and anaerobic treatment of wastewater.
- 5) (6 pts) How can wastewater from a hot tub be discharged? Why is it not important for this wastewater to go through a septic tank?
- 6) (5 pts) List and explain the different type of mortgages that a person can have for a home.
- 7) (5 pts) Explain what a person needs to know when they are looking for a mortgage. Describe why each is important.