

Arch 463  
ECS  
Fall 97

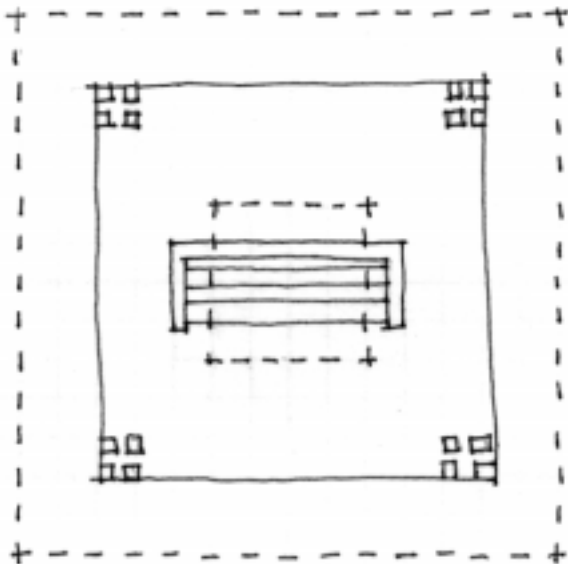
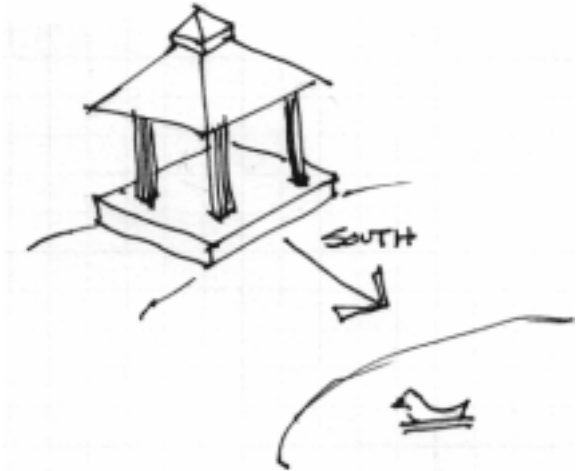
Name \_\_\_\_\_

Quiz #1

## "The Viewing Pavilion"

For this problem you are the designer for the Christian Norberg-Schultz memorial viewing pavilion. You will prepare schematic design documentation that supports your ideas for the pavilion.

**Design Guidelines.** The pavilion will be used for year-round viewing of a small lake on a remote site. It will be the only structure on the property. No automobiles will be allowed on site, so the pavilion will be approached by footpath. The structure will consist of four corner posts supporting a hip roof topped with a 4' square pyramidal skylight. The 10' tall spaced posts will be placed at the corners of a 10' x 10' square. The square travertine-on-slab floor aligns with the cardinal directions. The key to the design is to use passive design techniques to provide optimum comfort for the pavilion occupant, seated on the central wooden bench. Each of Norberg-Schultz's four skin element types (barrier, filter, connector, and switch) must be used as an in-fill panel (between the corner posts) in the design. Choose an appropriate in-fill panel for each wall orientation.



**Kit-of-Parts.** Your choices for in-fill panels are limited to the following: brick wall, glass block wall, grape vine on a trellis, open wall (no panel), roll-up insulated garage door, straw bale wall, shoji panel, or woven palm frond panel.

**Climate Context.** The site is located in a temperate climate zone in the Northern Hemisphere. Prevailing winds dominate the autumn, winter, and spring weather, but thermal breezes dominate the summer conditions. The pavilion will be located on a small knoll, a few yards directly north of the small lake.

1. Explain your design considerations and goals for each season.

Fall

Winter

Spring

Summer

2. Design and draw a pavilion that meets the design guidelines on page one. Draw each in-fill panel and explain its Norberg–Schultz function—barrier, filter, connector, or switch. (Remember that your choices for in-fill panels are limited to the following: brick wall, glass block wall, grape vine on a trellis, open wall (no panel), roll-up insulated garage door, straw bale wall, shoji panel, or woven palm frond panel.)

North



East



South



West



3. Explain how your design provides comfort for the occupant for each season.

Fall

Winter

Spring

Summer