

**ARCH 4350/6350**  
**Solar Geometry Worksheet**

You are designing a passive solar house for a site that is located at 40°N latitude and need to verify the solar angles.

1. What are the solar altitude and azimuths for the following dates and times?

June 21 @ Noon

March 21 @ Noon

March 21<sup>st</sup> @ 2 PM

December 21 @ 10 AM

April 21 @ 4 PM

2. The horizontal projection over the south facing first floor windows is 2' deep and the leading edge is 6' above the window sill height which is 3' above the ground. On June 21<sup>st</sup> at noon is the sill in sunlight or shadow?



