Homework 2

1.Calculate the sunset time, solar altitude, solar zenith angle, solar azimuth angle, and the angle of incidence on a surface tilted at 60° from the horizontal plane and facing 25° west of south, at 4:00 PM solar time on March 16, at a latitude of 43°.

R: apus 17:51; h 19.66°; solar azimuth 66.76°; $\theta = 39°$ (δ calc aprox)

2.A south facing flat plate solar collector is located in Athens-Greece $\phi = 37°58'$ with a slope $45°$. Calculate the solar time of sunset for this collector on September 14.

R: 89,676°(δ calc aprox)