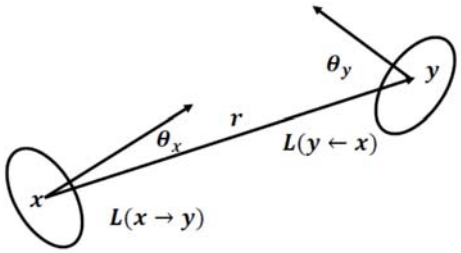
CS580 HW1

Instructor: Sung-eui Yoon

Due day: 10:30am, Mar-26 (Tue.); Submit your answer paper at the class

1. Prove invariance of radiance, L(x->y) = L(y<-x)
(Hint: refer to the radiometry chapter of the book)



2. Consider a square area light source with a surface area measuring 10 x 10 cm^2. Each point on the light source emits radiance according to the following function over its hemisphere:

$$L(x \rightarrow \Theta) = 1000 \cos\theta \ (W/sr \cdot m^2)$$

a) Compute radiosity for each point in the light source

b) Compute the power for the entire light source.