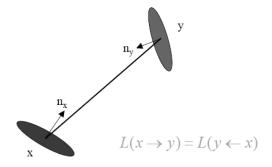
CS680 HW1

Instructor: Sung-eui Yoon

Due day: 4:00pm, Sep-23 (Submit your answer sheet to TA)

1. Prove invariance of radiance, L(x-y) = L(y<-x)



2. Consider a square area light source with a surface area measuring $10 \times 10 \text{ cm}^2$. 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.