



PROBLEM OF THE WEEK #10  
(Spring 2018)

Let  $S$  be a square, and let  $R$  be the set of points in  $S$  that are closer to the center of  $S$  than to any edge of  $S$ . Find  $\frac{\text{area}(R)}{\text{area}(S)}$ .

[Please fully explain your answer.]

Solutions should be submitted to Cinda Furry, in Gardner Hall 435, by 4:00 P.M. on Wednesday, April 11, 2018.