

**STAT 479**  
**Quiz 1**  
**Spring 2020**  
January 21, 2020

1. For a uniform distribution on the range of 100 to 800, calculate  $S(300)$ .

2. Let  $X$  be distributed as a Poisson distribution with  $\lambda = 8$ .

Calculate  $\Pr[6 \leq X \leq 8]$ .