

**MATH 113: DISCRETE STRUCTURES**  
**“READING” QUESTIONS FOR MONDAY WEEK 8**

**“Reading” assignment.** Watch the first probability lecture video on Youtube (link in email).

*Problem 1.* Let  $P$  be a probability distribution and let  $A$  and  $B$  be events. What would you plug into  $P$  in order to get the probability of “ $A$  or  $B$  but not both  $A$  and  $B$ ”?

*Problem 2.* Define a non-uniform probability distribution on  $S = \{0, 1\}$  and explain why your example works.