Math 5710

Monday, 7/13/20

Quiz 15

1. What is your name?

Write a paragraph that explains why we decided that the first of following statements wouldn't work for our definition of *conditional probability* but that the second one would:

1st. Given $A \subseteq \Omega \land B \subseteq \Omega \ni p(B) \neq 0$, $(p(A|B) = p(A \cap B)$

2nd. Given $A \subseteq \Omega \land B \subseteq \Omega \ni p(B) \neq 0$, $(p(A|B) = \frac{p(A \cap B)}{p(B)})$

The P(AMB) is too big, and we need to limit the Sample space to those that are a part of B, or B has already occured. Since our sample space is SIZ, P(AIB) L'. II need to only look at the set containing the B outcomes. That is why we limit our sample space to those by deviding by P(B).

3. Smile.