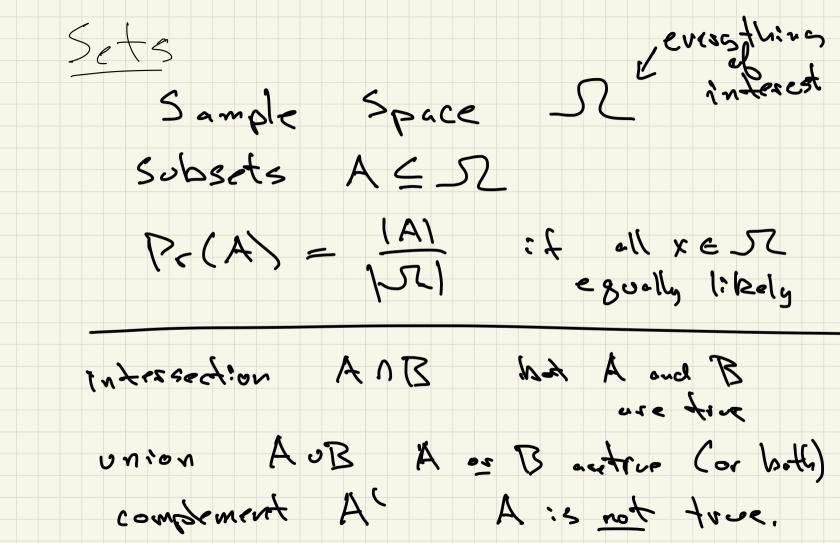
Prob/Stats LOZ

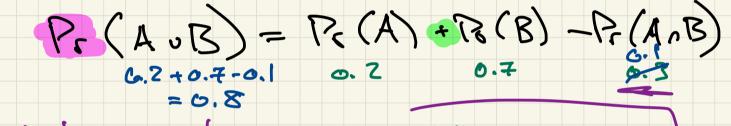
Conditional Trobability

Jan 19, 2023

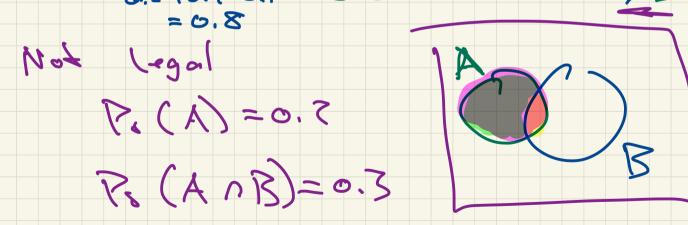


Probability Rule

Inclusion - Exclusion .



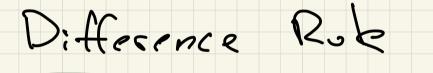
A,B C S



Rule R((C)) = R(C)+R(D) if CDD=\$

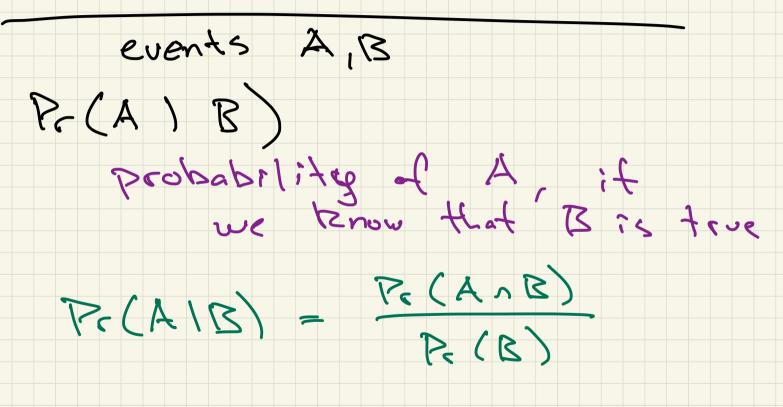
Complement Rule

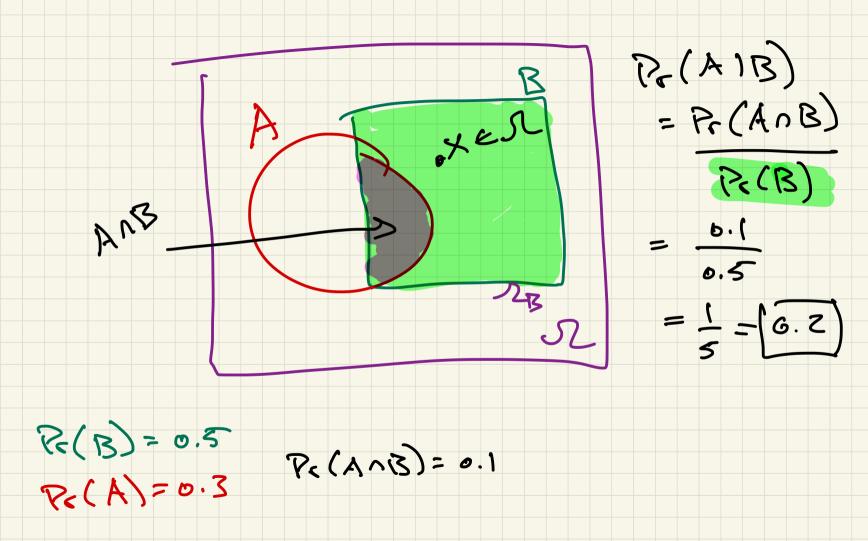
 $P_{e}(A^{c}) = 1 - P_{e}(A)$ 



## $P_{c}(A-B) = P_{c}(A) - P_{c}(A \cap B)$

## Conditional Probability





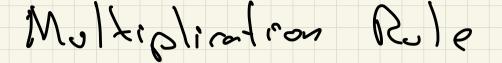
Z coins, fair Brain Tenser

B= at least one coin heads

 $\mathcal{R}_{B} = \{HT, TH, HH\}$ 

A = second coin heads JAH3

 $P_{c}(A | B) = \frac{|\{(H,H)\}|}{|\{(H,H,H)\}|^{2}} = \frac{1}{3}$ 



events A.B

 $P_{r}(A \cap B) = P_{r}(A \mid B) \cdot P_{r}(B)$ 

