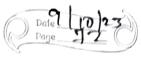
Properties of Conditional Probability: > Condetional Probabilitys Conditional Probability of Independent Events Tf A & B core independent events, then, P(AOB) = P(A). P(B).



The conditional probability of events

The conditional probability of event B

Given event P, P(B)A) is the

essenticulty the probability of event B,

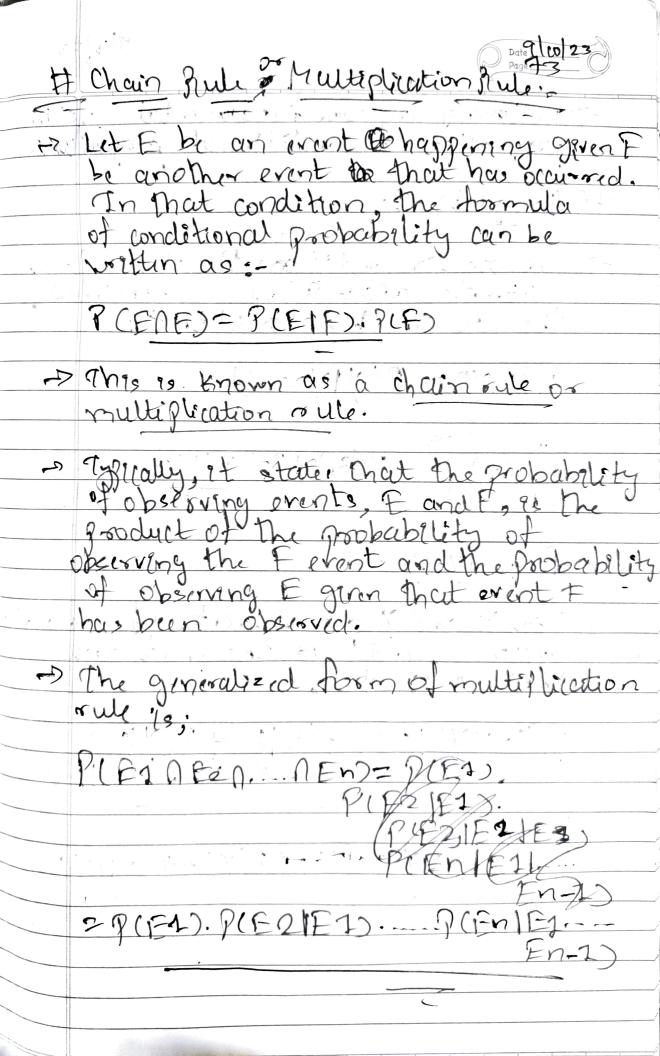
P(B). > The formula is given by PLBIA)= PLBO ndigendent events ase, of event B occurring to given by

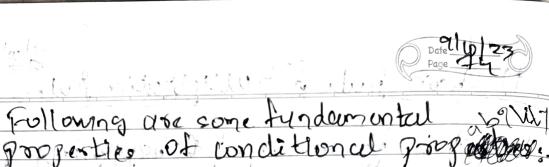
P(B) A>= P(A)B>= P(A).P(B)= 9(B)

P(A) P(A) event A occurring is given by

PIRO PIRO PIRO Conditional Probability of Mutually Exclusive Events: excluerve events are events that cooper cumot occur simultaneously. exclusive evente le alvecuje O.

1.(., 9(BIA)=0, and P(A)B)=0





J Following are some fundamental of the 2 events of a sample space of of an experiment then it can be be raid that;

PCS/YD=PCY/YD=2701.ex.

2.0 Property-2

3 Let x and y are 2 events of a sample 39 cle 3, and F 99 the event such that PUFD to;

P((xvy)|F)=P(x|F)+P(Y|F) -P(cxny)|F)

from; P(x)+P(x)-P(x()+)

A That is a set the second of the second



3.) Property-3: The sets so or events matters, so, PLAIBO + PCBLAS

The complement for mula holds only in the thirst as acquirers and any corresponding for mula for P(A 1 B2).

- Hone, P.CAIB? = J-P.CAIB? -> But, P(A·1B)=1-P(AIB)