TWO EVENTS A & B ARE

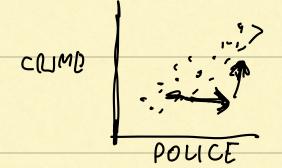
INDEPENDENT IF

$$\frac{P(A|B)}{P(B)} = \frac{P(A \cap B)}{P(B)}$$

$$= \frac{P(A) P(B)}{P(B)} = \frac{P(A)}{P(B)}$$

in inver

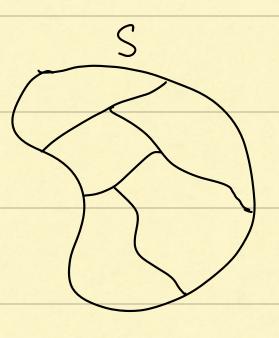
277) OMY SVM 7 18 INDED JUJJ



SUPPOSE A SAMPLE SPACE S IS SPLIT

SUCH THAT

AND



"PAR71710N"

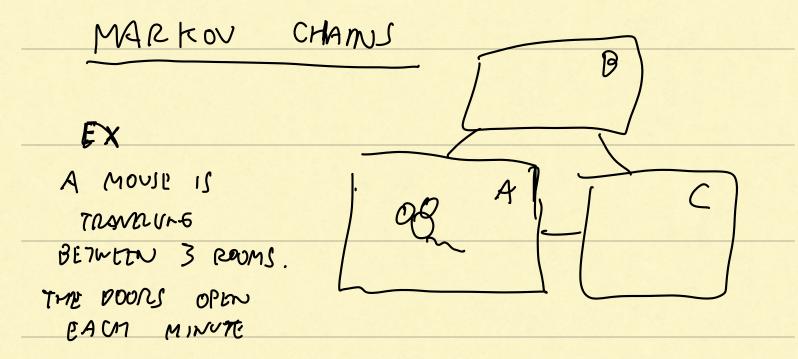
X - RANDOM VARIABLE

A COLLECTION OF RANDOM VARIABLES

IMPEXED BY t is

CALLED A STOCMSTIC PROCESS

t - DISCRETE OR CONTINUOUS



$$P(X_{t}=i \mid X_{t-1}=j, X_{t-2}=k,)$$

$$= P(X_{t}=i \mid X_{t-1}=j)$$

THEN

$$P_{pc} = P_{pc} = P$$

FROM y TO ?.

PS 2



