(7 m. m. olm. posibill la o formula_) $4) \qquad P(\varnothing) = 0$ $\Omega = \Omega \cup Q \quad \text{adit.}$ $\Omega = \Omega \cup Q \quad \text{adit.}$ $\Omega \cap Q = Q \quad \text{adit.}$ $P(\Omega) = P(\Omega) + P(Q) \Rightarrow P(Q) = C$ 2) $P(\overline{A}) = 1 - P(A)$ $\Delta = \overline{A} \cup A \quad \text{ordit} :$ $= \Lambda - \alpha \quad \text{or} \quad P(\Delta) = P(\overline{A}) + P(\overline{A}) = 1 - P(A)$ 3) $A \subseteq B \Rightarrow P(A) \leq P(B)$ A SB => FC, Anc =0, av. B=AUC B = AUC padit: AC = BC P(B) = P(A) + P(C) > P(A) = P(B) > P(B)4) P(A\B) = P(A) - P(A \B) $A = (A \cap B) \cup (A \setminus B)$ adit. $(A \cap B) \cap (A \setminus B) = \emptyset$ $P(A) = P(A \cap B)$ + P(A/B) =) \Rightarrow $P(A|B) = P(A) - P(A\cap B)$ AMB 5) P(AUB) = P(A) + P(B) - P(ADB)AUB = (A\B) U(AAB) U(B\A) } mum. A1B, A1B, B1A - digi 2-2 =) P(AUB)=P(A\B)+P(ANB)+P(B\A) #) P(A)-P(A) +P(A) +P(B)-P(B) $= P(A) + P(B) - P(A \cap B)$

TTU

9)
$$A \subseteq B_1 U = UBn$$
 $P(B_1, B_2 - digi: 2-2)$
 $P(A) = P(A|B_1) P(B_1) + \dots + P(A|B_m) P(B_n)$
 $P(A|B_1) P(B_1) + \dots + P(A|B_n) P(B_n) = \dots$
 $P(A \cap B_1) + \dots + P(A \cap B_n)$
 $P(A \cap B_1) + \dots + P(A \cap B_n)$
 $P(A \cap B_1) U = U(A \cap B_n) = P(A \cap B_1) + \dots + P(A \cap B_n)$
 $A \cap B_1 U = U(A \cap B_n) = A \cap (B_1 U = UB_n)$
 $A \cap B_1 U = P(A \cap B_1) + \dots + P(A \cap B_n)$
 $P(A) = P(A \cap B_1) + \dots + P(A \cap B_n)$
 $P(A) = P(A \cap B_1) + \dots + P(A \cap B_n)$
 $P(A) = P(A \cap B_1) + \dots + P(A \cap B_n)$

P(A|B1)P(B1)+ m+P(A|Bm)P(Bm)= P(A)B1)+ m+P(A)Bm)

= P(A)

3

Moservectu 1) Formulele sunt valabile si plantis In variantele lor demonstratil courtà la postial 1
2016-2017 conditionale. P(A [B) = 1-P(A |B) P(A)=1-P(A) (P(B) +0) P(ANB) = P(AlB)P(B) P(ANB)C) = P(AB,C)P(B)C) etc. 2) Ca regula generala, demonstratiile trebuil gandite Ru "U" (mu Ru ", yore essenzelu). la 4), intentia or fi sa scriem: A \B=A\(AAB), dor nu putem aplica propre de aditire numarabilà Aza ra nom oregandi astfel: $A = (A \setminus B) \cup (A \land B) =)$.