XEC XEC YXE AUC) XE (AUC) AB

$$X \in A$$
 $X \in A \triangle B$ $\Rightarrow X \in (A \triangle B) \cup C$
 $X \in B$ $X \in A \triangle B$ $\Rightarrow X \in (A \triangle B) \cup C$
 $X \in B$ $X \in A \triangle B$ $X \in A$ X

30y.
$$\forall n \in \mathbb{N} \sum_{i=0}^{n} 2^{i} = 2^{n+1} - 1$$

 $2^{0} + 2^{1} - 2^{n} = 2^{n+1} - 1$
 $P(K) = 2^{0} + 2^{1} - 2^{k} = 2^{k+1} - 1$
 $\forall n \in \mathbb{N} (P(n))$

2) [ling. ppg. | Hekol 30 Hands KGN]
$$P(k) = 7$$

$$2^{0} + 2^{1} ... + 2^{k} = 2^{K+1} - 1$$

$$2^{0} + 2^{1} + \cdots - 2^{k} + 2^{k+1} =$$

$$2^{k+1} - 1$$

$$= 2^{k+1} - 1 + 2^{k+1} = 2 \cdot 2^{k+1} - 1 =$$

$$= 2^{k+2} - 1$$

$$= P(k+1)$$

$$\Rightarrow \forall n \in N (P(n))$$

Докямете, че всяка сума от к лева (K≥12) може да се състяви само с бянкноти от 4 пв и 5 лв

YKEN K≥12 JaJBEN 5.0+4.8=K O- Spoā 5 6- Spoō [4]

Ung. or TP92 ba ga nokhmen, 4e Momen gu courablin cymara t+1

1 cn. β≥1

304 DOKAMETE, 4C YKZ3 30 MOHRE you ce pregetABU
KATO 43 PAZ COMO CK 5-YW U +,-,*,/,(,) K=6 5+5+5+5+5+5 K=12 5*5+5/5+5/5+5/5+5/5 P(K) (-) 30 Nont you ce opey ctrov c K 5-54 1+5-5 P(K) -> P(K+2)

OLD = ON-1+201-2

3A HAKUE K

ZA HAKOE K

→> P(K+1)

$$U$$
 с. РАЗ глендаме $K+1$

$$Q_{K+1} = Q_{K} + 2Q_{K-1} = Q_{K-1}$$

$$Q_{K-1} = Q_{K} + Q_{K-1} = Q_{K-1}$$

$$= 2^{K} + 2.2^{K-1} = 22^{L} = 2^{K+1} /$$

JOKAMETE, UE FREN 122

N MOME GOI CE PAJUE HO POCTH
MHUMUTERL.

P(n) (-> n mobile ga ce produce ha proctu mhomuilai

 $5_{A3A}: P(2) 2=2$

И.П. Долу скале, че Зъ Ичкое К Р(v)^P(1)^...^P(K) е из16 лиенр

W.C. PAZLABHGAME K+1 P(K+1)=?

1 cm. K+1 & MPOCTO P(K+1)= T

2 cm K+1 He MOCTO 44CAD

] 0, b E N 0.22, 6 = 2 0.6 = K+1

ack*/ Bck+1

NEGGABAT KATO NPOCTL MHOMITERS

D= P1. P2... Ps or u.n.
B= 91.92 -- 9, -

=> K+1 MOMP GO CE PAZILE NO PO CTU MUDHUTERU.

=> TEZPGENZTO E LIDONAPHO!