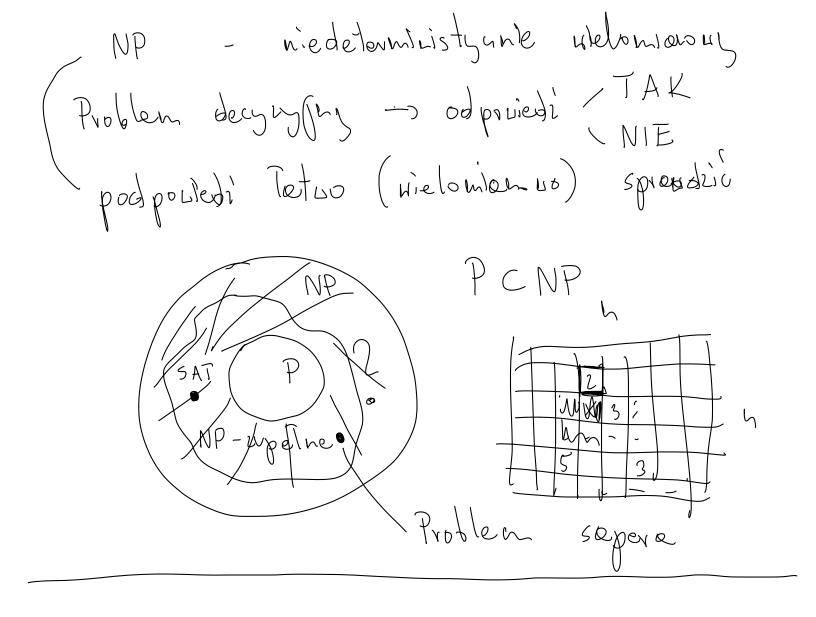
Cry q set spélvialne? ~) 2^h Problem SAT P11 -- 1 Pn P = NP ? A = [1, 5, -3, -1, 1000, -100, -20, 13, ...]7. Cry istniese todie $x \in A$, ie x = 2024? (n) 2. Cry istniese linby $x,y \in A$, dhe litorych x+y=2024? (n) = $\frac{n(n-1)}{2} \sim \frac{n^2}{2}$ 3. Cry istnesse links $x,y,t \in A$, also be bound x+y+z=2024? $\binom{n}{3} = \frac{n(n-1)(n-2)}{6} \sim \frac{n}{6}$ $\binom{3}{4} = \frac{n}{6}$ Cry istingly $x_1 = x_1 = x_2 = x_2$ Droblems tope P.

Cry istircje podebot toblicy A, u ktorym
who elementou jest roune 202h? podrb=150



Funding identions is known filterous

$$\begin{array}{c}
x^2 - 3 > 0 ? \\
\varphi : X \longrightarrow \{0,1\} \\
\text{herboard logiume}
\end{array}$$
Profited.

$$\varphi : R \longrightarrow \{0,1\} \\
\varphi : R \longrightarrow \{0,1\} \\
\varphi : R \longrightarrow \{0,1\} \\
\varphi : R \longrightarrow \{0,1\} \\
\text{My hiers furtique identions of }$$

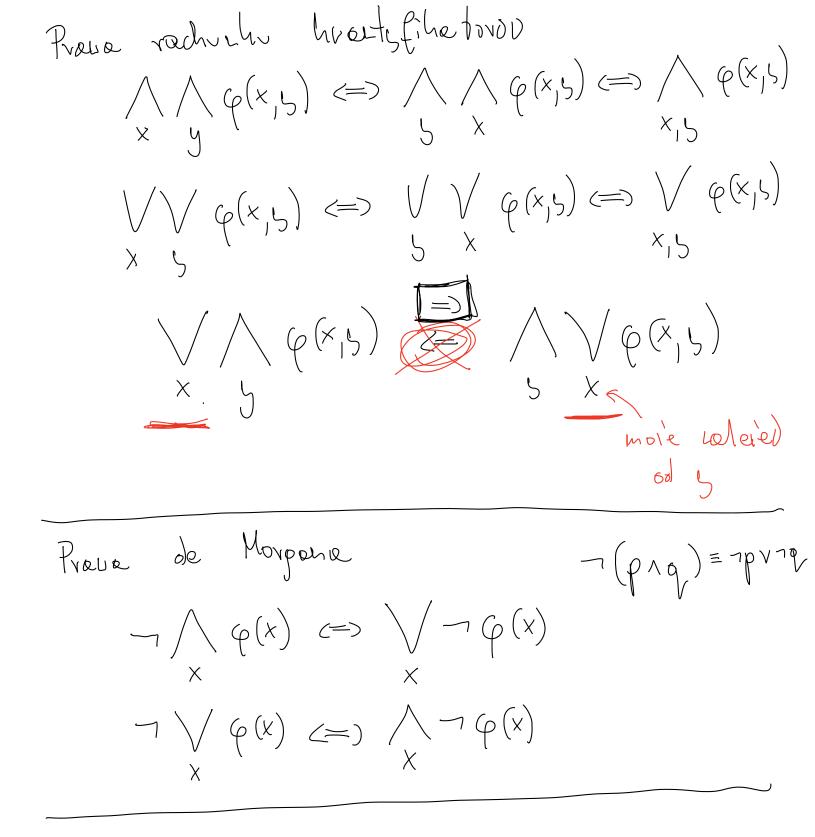
$$S(\varphi) = \begin{cases}
0, 9 \text{ so } x^2 - 3 < 0, \\
1, 9 \text{ so } x^2 - 3 > 0.
\end{cases}$$
Unlines furtique identions is known filterous
$$\varphi : R \longrightarrow \{0,1\} \\
S(\varphi) = \begin{cases}
0, 9 \text{ so } x^2 - 3 < 0, \\
0, 8 \times 2 \longrightarrow \{0,1\} \\
\varphi : X_1 \times ... \times X_n \longrightarrow \{0,1\} \\
\varphi : X_1 \times ... \times X_n \longrightarrow \{0,1\} \\
\varphi : X_1 \times ... \times X_n \longrightarrow \{0,1\} \\
\varphi : R \times 2 \longrightarrow \{0,1\}
\end{cases}$$

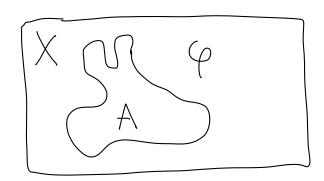
 $\times^2 + \Lambda > 0$ Luantyfihatin opdhis

for all ~ , dle lividep. X€X μονλοίδ φ(x) jett preudp kvandsfihætor srcrepoloms (=) exists istnieje $x \in X$, the letorepoint $\varphi(x)$ jest preudp VI Q(X)]! Q(X)

X l'istriéje dontédure jeden

istriéje dontédure jeden





$$\bigvee_{x \in A} \varphi(x) \stackrel{\text{def.}}{=} \bigvee_{x \in A} \varphi(x)$$

AND XOR