## Ytibepcauski pyrkesél. S-m-n meopelia

F": klac beix grynkepiù z F goikeoborna! apuccnie n.

P-a rely, x<sub>1</sub>, -, x<sub>n</sub>)-ynibepeartna gur knacy F<sup>n</sup>, xkuyo

 $-\forall m: u(m, \chi_{1,-}, \chi_{n}) \in F^{n},$ 

- H f e F<sup>n</sup> Fm: f(x<sub>1</sub>,..., x<sub>n</sub>)=u(m, x<sub>1</sub>,..., x<sub>n</sub>)
ger beix znarens x<sub>1</sub>...x<sub>n</sub>

Teoperia 1. Hexair 7'- Krac bejogn buznareneux n-apueux grynkesien ha N resourcement 0, s, In ma jalexnement bignocno eyneprozuesië.

Togi, exerp u-ynibepealena op-e gue Tr,

mo u + 1.

Haceigor 1. Pyrkejis, ynibepcauska gus kuacy n-apreix PP, re E 4PP.

Наслідок 2. Рупкілія, упіверсальна для класу п-армих ПРР, не є ПРР.

Téoperia 2. Jenye PP, ynibepcarema gue n-apriex MPP, Haciigor. Jenye PP ne MPP. Teopelia 3. Tenye 4PP, ynibepcarun gur Klacy n-apneix 4PP;  $u(y, \chi_1, ..., \chi_n) = Y_y(\chi_1, ..., \chi_n).$ MHP-nporpailea, reso obrucino ynibepearency 4PP-ynibepearence MHP-nporpailea. Bona gerogyt rucio y β rporpally Py i lægeløt i'i roδomy; u-ye φυγκιγία Υ<sub>κ</sub>. anavorirro gus MT: ynibepcarry MT mene Morena zagamu abno.

Dur komenoro goixcobanoro znorenne as,-, am aprymentil x,..., xm (m+n)-apria 4PP 4 m+n (x1, xm, y1, yn) ema e n-aprioro 4PP 4 (ys., yn). I' ingere k expermubno znarogumes za z ma az., am — repez (m+1)-apry PP. S-m-n-meoperia Vm,n 7,1 icny∈ (m+1)-apria PP Sm (Z, X1,-, Xm) taka, upo 77, X1,-, Xm, Y1,..., Yn P<sup>m+n</sup><sub>±</sub> (X<sub>1</sub>, X<sub>m</sub>, Y<sub>1</sub>, y<sub>n</sub>)= Y<sup>n</sup><sub>Sm(X<sub>1</sub>, X<sub>m</sub>)</sub> (Y<sub>1</sub>, Y<sub>n</sub>). 3auemenicms S<sup>n</sup><sub>m</sub> big n moment zhemu, skujo zagabamu 4PP repez MT. Coporyena S-m-n Dua Komenoi 4PP f(x1, xm, y1, yn) icuye PP S(x1,-, Xm) mara: YX1,.., Xm, y1,.., yn

 $f(x_{1,...}, x_{m}, y_{1,...}, y_{n}) = f_{S(x_{1,...}, x_{m})}^{n}(y_{1,...}, y_{n}).$ Cynepcopousena s-m-n (npu m=n=1)  $f(x_{1,...}, x_{m}, y_{1,...}, y_{n}) = f_{S(x_{1,...}, x_{m})}(y_{1,...}, y_{n}).$   $f(x_{1,...}, x_{m}, y_{1,...}, y_{n}).$   $f(x_{1,...}, x_{1,..$