Prole saptamanie 262.

a, h, c>0 cu alec=1 => I a+3 up Ta+1)= 23.

(x)

(++)



 $(\forall) \Leftrightarrow \sum_{a_{IC}} \left(\frac{a+1}{(a+1)^2} + \frac{2}{(a+1)^2} \right) \ge 3$ G) ∑ 1/1 + 2 ∑ 1/(a+1)2 ≥ 3 $(\Rightarrow) \sum_{a \neq c} \frac{2}{a + i} + \sum_{a \neq c} \left(\frac{2}{a + i}\right)^2 \ge 6$ $= \sum_{ak} \left(\frac{2}{a+1} \right)^2 + \frac{2}{a+1} - 2 \right) > 0$ $(=) \sum_{ije} \left(\frac{2}{ati} - 1\right) \left(\frac{2}{ati} + 2\right) \ge 0$ $() \sum_{abc} \frac{1-q}{1+a} \left(\frac{1-q}{1+a} + 3 \right) \ge 0$ $() \sum_{ay} \left(\frac{1-a}{1+a}\right)^2 + 3 \sum_{ay} \frac{1-a}{1+a} \ge 0$

 $\Rightarrow \left(\overline{T} \underbrace{I-a}_{I+a} \right)^{1/3} \leq I \Rightarrow \overline{T} \underbrace{I-a}_{I+a} \leq \left(\overline{T} \underbrace{I-a}_{I+a} \right)^{2/3}$ $\Rightarrow 3TT \underbrace{I-e}_{I+a} \leq 3(TT \underbrace{I-e}_{I+a})^{2/3} = 3(TT(\underbrace{I-e}_{I+a})^{2})^{2/3}$ The are that the way of reduce the

371 1-a + 3 2 1-a 20 are 1+a 20 (=) IT 1-a + 2 1-a 20 $(=) TT(1-a) + \sum_{ax} (1-a)(1+b)(1+c)$ TT(1+a)20 (=) TT(1-e) + ∑(1-a)(1+b)(1+c) ≥0 (=) 1-∑a+∑ale-alect ∑ (1+h+c+lec-a-ale-ac-alec) (=) (1- Za + Zale - alee) + 3 + Za - Zale - 3ale 30 (=) 4-6alec 30 ≤> 4≥ 6alec ≤> 1≥alec (=) 1≥1, aderearat Equitate arem = a = h = c = 1. $fn concluster: \sum_{uv} \frac{at 3}{(att)^2} 7.3.$

Remarca. Nu era necesar ca alec =1. Este suficient sa areem alee ≤ 1