lema 1

Ex4

Este mai phobabil ca din Garuncari sa pice cel putin un 6 decât din 24 de aruncari sa pice o dubla de 6.

(cu 2 zoruhi)

P1 = prima probabilitate Pr=a doua probabilitate

P1=1-(P1) (P1) = probabilitatea sà mu pice micium 6 in cele 4 oruncari

Pl. o singula aruncale. phobabilitatea o sa fie 5 =) pt. 4 annéari osà fie (5) 4 => P1 = 1 - (5) 4

P2=1-(P2), (P2) = prob. sa mu pice micio debla de 6 in cele 24 de alumcari

> Pt. o singuso aunçoso o sa fil 35 -) Pt.24 aruncati o sa fix $\left(\frac{35}{36}\right)^{24}$ -) $P_2 = 1 - \left(\frac{35}{36}\right)^{24}$

$$(-\frac{5}{6})^{4} - 1 - (\frac{35}{36})^{24} = -\frac{5}{6})^{4} - (\frac{35}{36})^{24}$$

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(a)
$$\frac{5^4}{36^2} \times \frac{55^{24}}{36^{24}}$$

$$(-) \quad \frac{5^4 \cdot 36^{22}}{35^{24}} < 1$$

$$\frac{36^{22}}{35^{20} \cdot 7^{4}} < 1$$

(4)
$$\frac{36^2}{7^4} \cdot \left(\frac{36}{37}\right)^{20} < 1$$

D= suma initiala 2n= Nr. Duncaliz

(=)
$$a < \frac{1}{1-6} - 1$$