Domannee jajanne N4

$$R(A) = \frac{1}{2} \cdot \left(6 \cdot \frac{1}{2^2} + 4 \cdot \frac{1}{2^2} + 1 \cdot \frac{1}{2^2} - 3 \cdot \frac{1}{2^2} \right) = 4 \cdot \frac{1}{2^2} = 1$$

Rep (loH), S) = sup (ho(h) - Ls(h)), Lo(h) = Epel(hix) } Ls(h) =
$$\frac{\pi}{m} \frac{Se(h,x)}{Se(h,x)}$$
.

1)
$$h_1(x) = 2x - 1$$

 $h_1(x_1) = -1$ $h_2(x_2) = 1$ $h_3(x_3) = -1/3$
 $L_2(h_3) = E \int max(0, 1 - y \cdot (2x - 1)) = -1/3$
- $\int max(0, 1 - y \cdot (2x - 1)) dx = -1/3$

$$= \int_{1/4}^{1/4} \max(0, 1 + \frac{1}{2}(2x-1)) dx + \int_{1/4}^{1} \max(0, 1 - \frac{1}{2}(2x-1)) dx = 1/4$$

$$= \int_{1/4}^{1/4} \max(0, 0, x) dx + \int_{1/4}^{1} (2 - 2x) dx = x^{2} \Big|_{1/4}^{1/4} + \left(\frac{1}{4}(x - x^{2}) \right) \Big|_{1/4}^{1} = \frac{1}{6} \left(\frac{1}{4} - \frac{1}{4} + \frac{1}{16} \right) = \frac{5}{3} \left(\frac{1}{4} + \frac{1}{$$

$$L_{D}(h_{2}) = E \int \max \{0, 1 - yx\} = \int \max \{0, 1 + yx\} dx + \int \max \{0, 1 - x\} dx$$

$$= \int (1 + x) dx + \int (1 - x) dx = \left(x + \frac{x^{2}}{2}\right) \Big|_{1/4}^{1/4} \left(x - \frac{x^{2}}{2}\right)^{1/4} =$$

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$$= \int (1 + x) dx + \int (1 - x) dx = \int$$

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N3.2) Doxamem, 200 R(A,+Az)=R(A,)+R(Az),
                                 AI+Az = fai+az: ai EAz, az EAz {
   R(A1+A2) = 1. Ense 6: ais = 1. 1 sub < 8, a+a2 >
                      memenst b men-be 3
n bee enn jabnobehesemme
Tronamerer, 200 suf < 8, a+1 a > = suf < 6, a > + suf < 6, a >.
    Denamen et sposibnoso. Types suf <5, a+an > + sup <6, a, > + sup < 6, a, >.
   sup < 6, a, +a, > > sup < 8, a, > + suf < 8, a, > =>
                  7 6 >0, 200 sup <3, a, +a, >+ 6 = sup <6, a> + sup <8, a>
 manne juacie, 2003a, sup < 8, a1> < <8, a1>+ 6/2
                    Fan Sup <6, an > < <6, an > + 6/2
       marga Jai, 7 E>0, 200 sup < 8, arta > E< Sup < 8, ar > +
                                              + sup <6, an > +6
   => supe 8, a, +an>
                        < sup = 8, a, > + sup = 8, a>,
                         no before tay, as.
        Eenu Gress
                       a=ai, a=ai, so nongrues
                                       rposiboperice.
2) sup < 3, a1+a2 > < sup < 3, a1 > + sup < 3, a2 >
       => 76>0 : sup < 8, a+ a > = sup = 8, a > + sup < 8, a > + E.
 merga 7a, a, 200 sup < 8, a, > < < 6, a, > + 6/2
                          Sup < 3, an> < < 8, an> + 6/2
                          Sup < 8, a1+an> < <6, a1+an>+6
              < 8, a, +a, > + 6 > Sup < 2, a, > + Sup < 8, a, > + E
         Tyest a = a u a = a : <6, a + a > > sup <6, a > + sup <6, a >
                               Thoroboherue.
  = ) sup < 8, a, + a, > = sup < 8, a, > + sup < 6, a, >
  => R(A, +Az) = # &m & sup < 8, a+ a> =
         = n In Superior + 1 in Sup = 8,00 = R/A1)+R/A) &
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1) Donancerer, 200 R(Jea+ao: a & Af) 5/c/R/A). Воспользуещей предпединий пупкаси: R(Aca+ao: a = Af) = R(Aca: a = Af) + R(ao). Rao) = # . In Soup <6, ao> = # . In & <6, ao> = = $[Th.k. 3; \epsilon 4 \pm 1]$, no que modoro memensa $3 \epsilon \epsilon$ maisféleil memerer - 3 nanoù, 260 $3 \pm (6) = 0$. => => = <6, a0> = 0. 7 = 0. Monysum, 200 R(Jea+ao: a = Af) = R(Jea: a = Af). Paremofume R/Aca: a EAS) = 1. 1. Esup <6,00> = = | C. f. fm : & sup < 6, 0>, eine C>0 /10/- in Im & sup <- 2, a>, eener c<0 = [M.k. nem zmaem, 200 + 3 6 8] - 2, 250 2+ (-8) = 0, TO \(\subsection \text{Sup} \(< \beta , \alpha > = \(\subsection \text{sup} \) \(< \beta \) \(\text{sup} \) \(\text{de} = /c/· n/ 2m & sup < 6, a> = /c/· R/A) => R(1ca+ao: a eAs) = kR(A)

X