```
@ S=(8, 2,)
                                                                                                                                                                                                                 \ensuremath{ egin{array}{ll} \ensuremath{ eta} = (a_1 - 2i_1) & \forall = \textit{nest of} \\ \ensuremath{ \ensuremath{ \mbox{Theorem 5}} = 2} \\ \ensuremath{ \mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$
                                                                                                                                                                                                                                       1-8:
Lp(A(s)) < Lu(A(s))+ Lution 446600 + 845440
                                                                                                                                                                                                                                              Prof: 1= (1/2 - 2)

1= (1/2 - 2)

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1= (1/2 - 2)
                                                                                                                                m>2k = m++> m + m =
                                                                                                                     L_b(A(s)) \leq L_v(A(s) + \int_{\mathcal{M}(s)} \frac{44d\sqrt{mN^2}}{n_\gamma} + \frac{8kl_p(m/\xi)}{m_\gamma}
                                                                                                              603 Lu(Ass)=0
1-8 Pmb 8 kbyle
                                                                                                                     1-8 Pmb. (A/S)) € 8kbg(m/8)
                                                                                                                         Conjection Schana
                                                                                                                     A:Z= Dong
                                                                                                                 Vh = )-(
(T1, h(x1)) - (Ton,h(sn)) -> 4
                                                                                                                     (74/h(n), 22/4/h(n)) -> B-x
                                                                                                                            Congression whoma
for when the same
                                                                                                                     しら(h)=しs(h)
                                                                                                                                           ERMICHO
                                                                                                                                    Z1... Zm.
Z
h'
                                                                                                              PAC-Bayes
                                                                                                      P: Prior distribution on H
O: Protester distribution on H
                                                                                        C proving discolution on it

\begin{cases}
(U, z) \stackrel{de}{=} E_{-} \int_{U} (h, z) \\
-f_{+}(0) \stackrel{de}{=} E_{-} \int_{U} (h, z)
\end{cases}

L_{f}(0) \stackrel{de}{=} E_{-} \int_{U} (f_{+}(0)) \\
-f_{-}(0) \stackrel{de}{=} E_{-} \int_{U} (f_{+}(0)) \\
-f_{-}(0) \stackrel{de}{=} (f_{-}(0)) \\
-f_{-}(0) \stackrel{de}{=} (f
                                                                                                          P(RIIP) = E[ In(RIA)/P(A))]
                                                                                    | Proof:

| f(5)

| f(f(5) \circ E) = f(6^{(6)} > e^{6}) \stackrel{\triangle}{=} \frac{E(6^{(6)})}{e^{6}}
                                                                                                          (1)= Loh)-Loh)

5(5)= sup (200-VE/60/6)2-D(QNP)
                                                                                                          2 (m-1) E (d/h)2-p(219) = E[h(e-m-shr Ro/oxy))
                                                                                                                                                                                                                                                         \underset{h \wedge \alpha}{\text{|E|}} \left( -\ell_{\text{in}} \underbrace{\frac{Q_{i}(k_{i})}{P(k_{i})}}_{P(k_{i})} + \ell_{i} \underbrace{\left( \underbrace{\Delta_{i}(k_{i})^{2}}_{i} \cdot \underline{\lambda_{i}(k_{i}-1)} \right) \right)
                                                                             $|nEleampoonP(h)/O(h)]
                                                                             = h E [ezema(4)]
                                                                  FLEGGE ELEGGENT]
                                                          Fleto] = Foleum old)
                                                          Wh, EleNon-War]≤m
                                                              PZo(h)≥5)≤e-z===
                                                              ELENOUSE M
                                                   P[f(5)02)(=0
                         E=h(m/8)
with Rob What 1-8
60.
           2(m-l)\underset{k \in \mathbb{Z}}{\mathbb{E}}(\mathscr{C}(k))^{k} - \int \left( |\mathcal{Q}| | \ell \right) \leq \mathcal{E} = \int_{\mathbb{R}} (m/g)
\frac{E(dh)^{2}}{\ln 2} \frac{\ln(m/s) + p(\alpha | p)}{2(m-1)}
E(dh) < \int \frac{E(dh)}{2(m-1)} \frac{1}{\ln 2} \frac{1}{\ln 2
                                                                                                                 P(xe[n, 1=1))= p
                                                                                                   P(xe U[7,00)) = 20 =1
                                                                                           8-3-867A
              BY SUPPLY COMMENT OF THE STREET OF THE STREE
                                                          \mathbb{P}_{S \sim \mathcal{B}^{1}} \left( \mathbb{E} \left( \mathbb{A}(S) \right) > \sup_{\xi \in \mathcal{F}} \mathbb{E} \left( \frac{\xi}{\xi} \right) - \xi \right) \ge 46
                                                          The ETIX landows of F'-{||faturate||
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