```
en_(0) = poven(0) st Porten(1) st, en (1) f= parento) (+ pinen(1) st, en = (spov sipor) en () a
                   = (8, P 3, 11-ps) en, 1E & SL, = 2(8, +S,), Resolder 1E SL, Sx2 = 1E SL, PSI, + PSI, ) = P E SL, + PSOS,
                      =\frac{P}{2}\left(\mathcal{S}_{0}^{2}+\mathcal{S}_{1}^{2}\right)+\frac{P}{P}\left(\mathcal{S}_{0}\mathcal{S}_{1}\right)+\frac{P}{P}\left(\mathcal{S}_{1}\mathcal{S}_{1}\mathcal{S}_{1}\right)=\frac{\mathcal{S}_{0}}{2}\left(\mathcal{S}_{1}\mathcal{S}_{1}\mathcal{S}_{1}|\mathcal{S}_{1},=0\right)+\frac{\mathcal{S}_{1}}{2}\left(\mathcal{S}_{1}\mathcal{S}_{1}\mathcal{S}_{1}|\mathcal{S}_{1},=1\right),\quad e_{1}=\frac{\mathcal{P}}{P}\left(\frac{e_{2}\omega}{e_{3}(1)}\right)
                     2 (PSo + PSo) = PSO + 2PPS, + PSO = 2P(1-P)S, + (2p2-2p+1)So, 15 8786 = 2(e20)+2111) = Ptopolog 2 (So e2 (0)+5, e2 (1))
2 PSO + PSO) 2 PPSO + PSO, + PSO, + 2P(1-P)SO + (2p2-2p+1)SO
                                   = 86 (p2-p+12) (So2+S12) + 2pl-p) So S1, = \frac{60}{2} (p S0 1E(\delta_1 | \lambda_2 \cdot \rangle) + \bar{p} \lambda_1 1E(\delta_1 | \lambda_2 \cdot \rangle) + \frac{5}{2} (p \delta_1 1E(\delta_1 | \lambda_2 \cdot \rangle) + \bar{p} \lambda_1 1E(\delta_1 | \lambda_2 \cdot \rangle) + \frac{5}{2} (p \delta_1 1E(\delta_1 | \lambda_2 \cdot \rangle) + \bar{p} \lambda_1 1E(\delta_1 | \lambda_2 \cdot \rangle) + \frac{5}{2} (p \delta_1 1E(\delta_1 | \lambda_2 \cdot \rangle) + \bar{p} \lambda_1 1E(\delta_1 | \lambda_2 \cdot \rangle) + \frac{5}{2} (p \delta_1 1E(\delta_1 | \lambda_2 \cdot \rangle) + \bar{p} \lambda_1 1E(\delta_1 | \lambda_2 \cdot \rangle) + \frac{5}{2} (p \delta_1 1E(\delta_1 | \lambda_2 \cdot \rangle) + \bar{p} \lambda_1 1E(\delta_1 | \lambda_2 \cdot \rangle) + \frac{5}{2} (p \delta_1 1E(\delta_1 | \lambda_2 \cdot \rangle) + \bar{p} \lambda_1 1E(\delta_1 | \lambda_2 \cdot \rangle) + \bar{p} \lambda_2 1
                 + \bar{p} \delta_{0} E(\delta_{L_{3}} | L_{1} = 01) = \frac{\delta_{0}}{2} \left( p \delta_{0} \delta_{0} p^{2} \delta_{0}^{2} + p \bar{p} \delta_{0} \delta_{1} + p \bar{p}^{2} \delta_{1} \delta_{1}^{2} \right) + \frac{\delta_{1}}{2} \left( p \bar{p} \delta_{0} \delta_{1} + p \bar{p}^{2} \delta_{1} \delta_{1} + p \bar{p}^{2} \delta_{1} \delta_{1} \delta_{1}^{2} + p \bar{p}^{2} \delta_{1} \delta_{1} \delta_{1}^{2} + p \bar{p}^{2} \delta_{1}^{2} + p \bar{p}^{2} \delta_{1}^{2} \delta_{1}^{2} + p \bar{p}^{2} \delta_{1}^{2}
                   =\frac{1}{2}\left(\int_{0}^{3}p^{2}+\int_{0}^{3}S,\left(2p\overline{p}+\overline{p}^{2}\right)+\int_{0}^{3}S^{2}\left(2p\overline{p}+\overline{p}^{2}\right)+\int_{0}^{3}p^{2}\right), \quad P(L_{11}MMb)=l_{11}\left[L_{1}=l_{1}\right]=\sum_{n}P(L_{1n}=l_{11})\left[A_{1n}=n\right].
P(A_{1n}=a|L_{1}=l_{1})=\sum_{n}p^{n=l_{11}}\left(1-p\right)^{n+l_{11}}p^{n+l_{11}}\left(1-p\right)^{n+l_{11}}p^{n+l_{11}}\left(1-p\right)^{n+l_{11}}p^{n+l_{11}}\left(1-p\right)^{n+l_{11}}p^{n+l_{11}}\left(1-p\right)^{n+l_{11}}p^{n+l_{11}}\left(1-p\right)^{n+l_{11}}p^{n+l_{11}}\left(1-p\right)^{n+l_{11}}p^{n+l_{11}}\left(1-p\right)^{n+l_{11}}p^{n+l_{11}}\left(1-p\right)^{n+l_{11}}p^{n+l_{11}}\left(1-p\right)^{n+l_{11}}p^{n+l_{11}}\left(1-p\right)^{n+l_{11}}p^{n+l_{11}}\left(1-p\right)^{n+l_{11}}p^{n+l_{11}}\left(1-p\right)^{n+l_{11}}p^{n+l_{11}}\left(1-p\right)^{n+l_{11}}p^{n+l_{11}}\left(1-p\right)^{n+l_{11}}p^{n+l_{11}}\left(1-p\right)^{n+l_{11}}p^{n+l_{11}}\left(1-p\right)^{n+l_{11}}p^{n+l_{11}}\left(1-p\right)^{n+l_{11}}p^{n+l_{11}}\left(1-p\right)^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{n+l_{11}}p^{
                      {2 P } ( Explosion & - ( P) P Hist (L2p) ( L2p) ( P) A=1, V= 2= P+VP-2P+1 = P + (P-1), & 3, = 2p-1, 32=1,
                   What \binom{1}{1-p}, \binom{1}{1-p},
                     1 = 2 p (83+5, ) + 1 P2 (5, H3, 12 - 8,5, (2p-1) = 2 p (815) + 1 p (8) + 6; + 1 p (8) + 5; + 4 p 50 5; ) = 2 |80+6)
              =\frac{1}{2}(S_{0}+S_{0})+\sqrt{\left(\frac{p^{2}}{4}(S_{0}^{2}+S_{0}^{2})+\frac{p^{2}}{2}S_{0}S_{1}-2pS_{0}S_{1}+S_{0}S_{1}\right)}\;\;,\;\;\frac{p^{2}}{2}-2p+1=\frac{1}{2}(p^{2}-4p+2)=\frac{1}{2}(p^{2}-4p+2)=\frac{1}{2}(p^{2}+4p^{2})(p-2-\sqrt{2})\;,
              \sqrt{\left(\frac{1}{4}(\delta_{0}-\delta_{1})^{2}+\left(p^{2}-2p+1\right)\delta_{0}\delta_{1}\right)}=\sqrt{\frac{p^{2}}{4}(\delta_{0}-\delta_{1})^{2}+\delta_{0}\delta_{1}(p-1)^{2}},\qquad \text{IE}\ TS_{1}=\left(\frac{1}{2}\delta_{0}+\frac{1}{2}\delta_{1}\right)^{\frac{1}{2}}p^{-1}\left(\lambda_{1}^{\frac{1}{2}-2}\right)P\left(\frac{p\delta_{0}+p\delta_{1}}{p\delta_{1}+p\delta_{2}}\right)
                (S_0 = S_1) \quad A = pS \pm A(p^2 S^2 - S^2(2p-1)) = pS \pm S(1-p) = S, (2p-1)S, \quad V = \begin{pmatrix} S_1 & S_1 \\ S_2 & S_1 \end{pmatrix}, \begin{pmatrix} x_1 & (p-1)S_1 \\ S_2 & S_1 \end{pmatrix}, \begin{pmatrix} x_2 & (p-1)S_1 \\ S_2 & S_1 \end{pmatrix}, \begin{pmatrix} x_1 & (p-1)S_1 \\ S_2 & S_1 \end{pmatrix}, \begin{pmatrix} x_2 & (p-1)S_1 \\ S_2 & S_1 \end{pmatrix}, \begin{pmatrix} x_1 & (p-1)S_1 \\ S_2 & S_1 \end{pmatrix}, \begin{pmatrix} x_2 & (p-1)S_1 \\ S_2 & S_1 \end{pmatrix}, \begin{pmatrix} x_1 & (p-1)S_1 \\ S_2 & S_1 \end{pmatrix}, \begin{pmatrix} x_2 & (p-1)S_1 \\ S_2 & S_1 \end{pmatrix}, \begin{pmatrix} x_1 & (p-1)S_1 \\ S_2 & S_1 \end{pmatrix}, \begin{pmatrix} x_2 & (p-1)S_1 \\ S_2 & S_1 \end{pmatrix}, \begin{pmatrix} x_1 & (p-1)S_1 \\ S_2 & S_1 \end{pmatrix}, \begin{pmatrix} x_2 & (p-1)S_1 \\ S_2 & S_1 \end{pmatrix}, \begin{pmatrix} x_1 & (p-1)S_1 \\ S_2 & S_1 \end{pmatrix}, \begin{pmatrix} x_1 & (p-1)S_1 \\ S_2 & S_1 \end{pmatrix}, \begin{pmatrix} x_1 & (p-1)S_1 \\ S_2 & S_1 \end{pmatrix}
                            \text{The } e_{t} |\mathcal{C}_{t}| = |\mathcal{E}\left[\frac{1}{1} \frac{\delta_{A+1}}{\delta_{L_{t}}} \left| \frac{A_{b-1} = a}{L_{b-1} - l_{b-1}} \right| = P |\mathcal{E}\left[\frac{1}{1} \frac{\delta_{A_{b+1}}}{\delta_{L_{t}}} \left| L_{b} = a \right| + (1-p) \frac{\delta_{n}}{\delta_{n}} |\mathcal{E}\left[\frac{1}{1} - \left| L_{b} = a \right| \right] \right] 
      ||f_{t_{0}}||_{t_{0}-1} = ||f||_{j=t_{0}}^{7} \frac{\delta_{A_{j-1}}}{\delta_{L_{j}}} ||L_{t-1}||_{t_{0}} = ||f||_{j=t_{0}}^{7} ||f||_{j=t_{0}}^{7} ||f||_{t_{0}}^{7} ||
```



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$$\begin{array}{c} \bigoplus_{i=1}^{n} (r_{i}) \sum_{k=1}^{n} (r_{i}$$



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$$\frac{\left(2\pi G_{1}^{2}\right)^{2} \left(2\pi G_{1}^{2}\right)^{2} \left(2\pi$$

 $= \frac{d}{d} \left\{ \left\{ \frac{1}{2} \left( -\frac{1}{2} \right) \right\} + \frac{d}{d} \left\{ \frac{d}{d} \right\} \right\} \left\{ \frac{1}{2} \left( -\frac{1}{2} \right) \right\} \left\{ \frac{d}{d} \left( -\frac{1}{2} \right) \right\} \left\{$ 



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β=-B= (h·w·0) h·w·(L+υ+ε), Ε(β-β)= Ε((L·w·D) h·w·(L+υ)), Ε h·μΕ(L+) [+ω, A+1)
[] HA<sub>ε</sub>[τ, A<sub>ε</sub>] : IE(IE(... | Iem, Ar.) = IE(Zh(#Ar., ar) + IF (L(IIr., Ar.)) = IE(... | Ir., Ar.) = O.  $\frac{1}{\mathbb{E}} \frac{L_{1}^{-}\mathbb{E}\left(L_{1} | L_{\tau_{1}} | A_{\tau_{1}}\right)}{\mathbb{E}\left[h^{T}(q) \left\{A_{1} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{1} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_{\tau_{1}}\right\} \right]} = \sum_{i} \frac{1}{\mathbb{E}\left[h^{T}(q) \left\{A_{\tau_{1}} | A_{\tau_{1}} | A_$  $=\frac{\mathcal{E}}{4}\left[\mathbb{E}\left(\mathbb{L}^{2}(\mathbb{E})\left(\tilde{\mathcal{A}}_{2n}=\tilde{\mathcal{A}}_{2n}\right)\right)-\mathbb{E}\left(\mathbb{L}^{2}(\mathbb{L}^{2}(\mathbb{L}^{2},\tilde{\mathcal{A}}_{2n})\right)\right]=\frac{\mathbb{E}}{4}\left[\mathbb{E}\left(\mathbb{L}^{2}(\mathbb{L}^{2}(\mathbb{L}^{2},\tilde{\mathcal{A}}_{2n}))\right]$ ( the ( thistens ) = = = [ ( ht ( a) ( A z = = = = ) ( ( - | vin = = = = ) ) = 0  $\frac{\frac{1}{2}\left(\left[\frac{7}{2}\right]+7\right)\left(\frac{7}{4}\right)^{2}+\frac{7^{2}}{4}y^{-7}\right)}{\left\{2^{7-2}}\frac{4}{7}\left(\frac{7}{7}+1\right)^{2}}=\frac{1}{7+1}\left(\frac{7}{4}y^{-7}\right)^{2}+\frac{1}{7}\left(\frac{7}{4}y^{-7}\right)^{2}}{\left\{2^{7-1}\left(\frac{7}{7}+1\right)^{2}\right\}^{2}}=\frac{1}{7+1}\left(\frac{7}{4}y^{-7}\right)^{7-1}\left(1+\frac{7}{7}y^{-7}\right)^{2}$ = 1+4 prings (Apriliped -1) A MANGE  $\frac{1+4 \, P_{2}(l\cdot P_{2}) \left[4p_{1}(l\cdot P_{1}l^{2}-1) \, A \, \text{Le}_{1}\right]}{4\epsilon_{1} \, \frac{1}{5} \, \frac{1}{5$ + Pi (1-P2) \( \frac{\gamma\_{t+1}}{\sigma\_{t+1}} \) \( \frac{\left\_{t+1}}{\sigma\_{t+1}} \) \( \frac{\left\_{t+1}}{\sigma\_{t+1}} \) \( \frac{\gamma\_{t+1}}{\sigma\_{t+1}} = ( p.p2 \frac{\gamma\_{\text{tr}}}{\delta\_{\text{tr}}} + [+p\_1)(1-p\_2) \frac{\gamma\_{\text{ltr}}}{\delta\_{\text{tr}}} \right) = \frac{\quad \text{tr}}{\delta\_{\text{tr}}} \right) + \left( p\_1(1-p\_2) \frac{\gamma\_{\text{ltr}}}{\delta\_{\text{ltr}}} \right) = \frac{\quad \text{ltr}}{\delta\_{\text{ltr}}} \right) = \frac{\quad \quad \text{ltr}}{\quad \text{ltr}} \right) = \frac{\quad \quad \quad \text{ltr}}{\quad \quad \quad \text{ltr}} \right) = \frac  $P = \begin{cases} P_{1}P_{2} \frac{\gamma_{0}}{\delta_{0}} + (\mu_{1})\Pi_{1} - p_{2}) \frac{\gamma_{1}}{\delta_{0}} & P_{1}(\mu_{2}) \frac{\gamma_{0}}{\delta_{1}} + (\mu_{1})P_{2} \frac{\gamma_{1}}{\delta_{1}} \\ P_{1}(\mu_{1}) \frac{\gamma_{0}}{\delta_{0}} + (\mu_{1})P_{2} \frac{\gamma_{0}}{\delta_{0}} & P_{1}P_{2} \frac{\gamma_{0}}{\delta_{1}} + (\mu_{1})P_{2} \frac{\gamma_{0}}{\delta_{0}} \end{cases}, \quad (P_{1} = P_{2}), P_{2} = \begin{pmatrix} P_{2} \frac{\gamma_{0}}{\delta_{0}} + (\mu_{1})^{2} \frac{\gamma_{1}}{\delta_{0}} & P_{1}P_{2} \frac{\gamma_{1}}{\delta_{1}} \\ P_{2} \frac{(\mu_{1})P_{2}}{\delta_{0}} & P_{1}P_{2} \frac{\gamma_{0}}{\delta_{0}} & P_{1}P_{2} \frac{\gamma_{0}}{\delta_{0}} \end{pmatrix}, \quad (P_{1} = P_{2}), P_{2} = \begin{pmatrix} P_{1} \frac{\gamma_{0}}{\delta_{0}} + (\mu_{1})^{2} \frac{\gamma_{1}}{\delta_{0}} & P_{1}P_{2} \frac{\gamma_{1}}{\delta_{0}} \\ P_{2} \frac{(\mu_{1})P_{2}}{\delta_{0}} & P_{1}P_{2} \frac{\gamma_{1}}{\delta_{0}} \end{pmatrix}, \quad (P_{1} = P_{2}), P_{2} = \begin{pmatrix} P_{1} \frac{\gamma_{0}}{\delta_{0}} + (\mu_{1})^{2} \frac{\gamma_{1}}{\delta_{0}} & P_{1}P_{2} \frac{\gamma_{1}}{\delta_{0}} \\ P_{2} \frac{(\mu_{1})P_{2}}{\delta_{0}} & P_{1}P_{2} \frac{\gamma_{1}}{\delta_{0}} & P_{1}P_{2} \frac{\gamma_{1}}{\delta_{0}} \end{pmatrix}, \quad (P_{1} = P_{2}), P_{2} = \begin{pmatrix} P_{1} \frac{\gamma_{1}}{\delta_{0}} + (\mu_{1})^{2} \frac{\gamma_{1}}{\delta_{0}} & P_{1}P_{2} \frac{\gamma_{1}}{\delta_{0}} \\ P_{2} \frac{\gamma_{1}}{\delta_{0}} & P_{1}P_{2} \frac{\gamma_{1}}{\delta_{0}} & P_{2}P_{2} \frac{\gamma_{1}}{\delta_{0}} \end{pmatrix}$ An Yo = P2+(+P2) \$1 , \(\frac{\frac}  $\Delta = (p^{4} + (l-p)^{4}) \frac{\gamma_{0} \gamma_{1}}{\delta_{0} \delta_{1}} + p^{2} (l-p)^{2} (\frac{\gamma_{0}^{2}}{\delta_{0}^{2}} + \frac{\gamma_{1}^{2}}{\delta_{0}^{2}}) - p^{2} (l-p)^{2} (\gamma_{0} + \gamma_{1})^{2} \frac{1}{\delta_{0} \delta_{1}} + p^{2} (l-p)^{2} \frac{\gamma_{0} \gamma_{1}}{\delta_{0} \delta_{1}} + p^{2} (l-p)^{2} \frac{\gamma_{0} \gamma_{1}}{\delta_{0}^{2}} + \frac{\gamma_{1}^{2}}{\delta_{0}^{2}} + \frac{\gamma_{1$ 6, 60 ) = p (1pt) 2 (8, 4) (1pt) (8, 6) (8) (8) (8) (8) (8) (8) (8) (8) (8) claims mail & map frous a. com pt claim # \$97=(p250+

(Ely | arm, [7.1) = 15 (16 (7 | à,î) - M(ā) ( ar, î, ) = ) 16 (41 à, î) f (8, 1 à, 1, 1) = M(ā)

16 (4 (A, L) = M(A) + L, 16 L=0

1E 19, [1, L) = p(1)+L

15(7, (O,L) = ?

E (Y., [0,0, Lz] = M(Az) + L, +Lz, 15(1,1=0, 15(1,2) a,=0, 1,)=0

 $\frac{1}{16} \frac{1}{16} \frac{1}{16} \frac{1}{16} = \frac{1}{12} \left( \frac{1}{12} \left( \frac{1}{12} \right) + \frac{1}{12} \left( \frac{1}{1$  $+\frac{1}{2\delta_{i}}\mathbb{E}\left(\frac{\gamma_{Ai}}{\delta_{Li}}\left|L_{i}=1\right.\right)=\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\gamma_{Ai}}{\delta_{Li}}\left|L_{i}=\ell_{i}\right.\right)=\mathbb{E}\left(\gamma_{Ai}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}\left(\frac{\delta_{Li}}{\delta_{Li}}\right)^{\frac{1}{2}}\mathbb{E}$  $T = p^2 \sqrt{\frac{9 \cdot \xi_1 + \gamma_1 \xi_0}{\xi_0 \xi_1}} + (pp)^2 \frac{\gamma_1 \xi_1 + \gamma_2 \xi_0}{\xi_0 \xi_1} = (p^2) \frac{\gamma_0 \xi_2 + \gamma_1 \xi_1}{\xi_0 \xi_1} + p^2 \frac{(\gamma_0 - \gamma_1)(\xi_1 - \xi_0)}{\xi_0 \xi_1} = p^2 \left(\frac{\gamma_1}{\xi_0} + \frac{\gamma_1}{\xi_0}\right) + (pp)^2 \left(\frac{\gamma_0}{\xi_1} + \frac{\gamma_1}{\xi_0}\right)$  $T^{2}/_{4}-\Delta=\frac{P^{4}\left(\frac{\gamma_{0}}{\delta_{0}}+\frac{\gamma_{1}}{\delta_{1}}\right)^{2}+\frac{\left(1-p\right)^{4}\left(\frac{\gamma_{0}}{\delta_{1}}+\frac{\gamma_{1}}{\delta_{0}}\right)^{2}+\frac{2}{2}p^{2}\left(1-p\right)^{2}\left(\frac{\gamma_{1}}{\delta_{0}}+\frac{\gamma_{1}}{\delta_{1}}\right)\left(\frac{\gamma_{0}}{\delta_{1}}+\frac{\gamma_{1}}{\delta_{0}}\right)-\left(p^{2}-(1-p)^{2}\right)^{2}\frac{\gamma_{0}\gamma_{1}}{S_{0}S_{1}}$  $= \left[\frac{1}{2} \left( p^{4} + (i-p)^{4} \right)^{\frac{1}{4}} - \left( p^{2} - (i-p)^{2} \right)^{2} \right] \frac{\gamma_{0} \gamma_{i}}{S_{0} S_{i}} + \frac{p^{4}}{4} \left( \frac{\gamma_{0}^{2}}{S_{0}^{2}} + \frac{\gamma_{1}^{2}}{S_{i}^{2}} \right) + \frac{1}{4} \frac{(i-p)^{4}}{4} \left( \frac{\gamma_{0}^{2}}{S_{0}^{2}} + \frac{\gamma_{1}^{2}}{S_{0}^{2}} \right) + \frac{1}{2} p^{2} (i-p)^{2} \left( \frac{\gamma_{0}}{S_{0}} + \frac{\gamma_{1}}{S_{i}} \right) \left( \frac{\gamma_{0}}{S_{i}} + \frac{\gamma_{1}}{S_{i}} \right) + \frac{1}{2} p^{2} (i-p)^{2} \left( \frac{\gamma_{0}}{S_{0}} + \frac{\gamma_{1}}{S_{i}} \right) + \frac{1}{2} p^{2} (i-p)^{2} \left( \frac{\gamma_{0}}{S_{0}} + \frac{\gamma_{1}}{S_{i}} \right) + \frac{1}{2} p^{2} (i-p)^{2} \left( \frac{\gamma_{0}}{S_{0}} + \frac{\gamma_{1}}{S_{i}} \right) + \frac{1}{2} p^{2} \left( \frac{\gamma_{0}}{S_{i}} + \frac{\gamma_{1}}{S_{i}} \right) + \frac{1}{2} p^{2} \left( \frac{\gamma_{0$  $= \left[-\frac{1}{2}p^{4} - \frac{1}{2}(1-p)^{4} + 2p^{2}(1-p)^{2}\right] - = p^{2}(1-p)^{2}\frac{\gamma_{0}\gamma_{1}}{f_{0}f_{1}} - \frac{1}{2}\left(p^{2} - (1-p)^{2}\right)^{2}\frac{\gamma_{0}\gamma_{1}}{f_{0}f_{1}} - 2p^{2}\left(1-p\right)^{2}\frac{\gamma_{0}\gamma_{1}}{f_{0}f_{1}} + \frac{p^{4}}{4}\left(\frac{\gamma_{0}}{f_{0}} - \frac{\gamma_{1}}{f_{0}}\right)^{2} + \frac{(1-p)^{4}}{4}.$  $\left(\frac{v_0}{\delta_1} - \frac{v_1}{\delta_0}\right)^2 + \frac{1}{2} p^2 (\nu p)^2 \left(\frac{v_0}{\delta_1} + \frac{v_1}{\delta_1}\right) \left(\frac{v_0}{\delta_1} + \frac{v_1}{\delta_0}\right) = \frac{v_1}{4} \left(p^2 \left(\frac{v_0}{\delta_0} - \frac{v_1}{\delta_1}\right) \pm (\nu p)^2 \left(\frac{v_0}{\delta_0} - \frac{v_1}{\delta_1}\right)\right)^2 + \frac{1}{2} p^2 (\nu p)^2 \left(\frac{v_0}{\delta_0} - \frac{v_1}{\delta_1}\right) \left(\frac{v_0}{\delta_0} - \frac{v_1}{\delta_0}\right)$ + 2p2(1-p)2 \frac{\gamma\_0 \gamma\_1}{\xi\_5 \xi\_5} + \frac{1}{2}p^2(1-p)^2 \left(\frac{\gamma\_1}{\xi\_5} + \frac{\gamma\_1}{\xi\_5} \right) = \frac{1}{4} \left(-- \frac{\pm}{1} - \right)^2 + 2p^2 (1-p)^2 \frac{\gamma\_0 \gamma\_1}{\xi\_5 \xi\_5} + \frac{1}{2}p^2 (1-p)^2 \left(\frac{\gamma\_0 \gamma\_1}{\xi\_5 \xi\_5} + \frac{\gamma\_0 \g  $+\frac{V_{1}^{2}}{6.6i} \mp \frac{V_{0}^{2}}{6.5i} \pm \frac{V_{0}V_{1}}{6i^{2}} \pm \frac{V_{0}V_{1}}{6i^{2}} \mp \frac{V_{1}^{2}}{6.5i} \left( 8 \right) := \frac{1}{4} \left( -\frac{4}{4} - \frac{1}{2} \right)^{2} + 2p^{2} (1-p)^{2} \frac{V_{0}V_{1}}{6.5i} + \frac{4}{5} p^{2} (1-p)^{2} \left( V_{0}^{2} + V_{1}^{2} \right) \frac{1}{5.5i}$  $=\frac{1}{4}\left(\frac{2}{5}\left(\frac{N_{1}}{5}-\frac{N_{1}}{5}\right)-\frac{N_{1}}{6}\left(\frac{N_{2}}{5}-\frac{N_{1}}{5}\right)\right)^{2}+\frac{2^{2}(1-p)^{2}}{5\cdot5\cdot1}\left(N_{0}+N_{1}\right)^{2}+\frac{2^{2}(1-p)^{2}}{5\cdot5\cdot1}\left(\frac{N_{0}+N_{1}}{5\cdot5\cdot5}-\frac{1}{2}\left(\frac{N_{2}-N_{1}}{5\cdot5\cdot5}-\frac{N_{1}}{5\cdot5}\right)\left(\frac{N_{1}}{5\cdot5\cdot5}-\frac{N_{1}}{5\cdot5}\right)\right)^{2}$  $= p'(|p|^2 | 2^{\frac{1}{2}} \frac{V_0^2}{\delta_0 \delta_1} + \frac{1}{2} \frac{V_1^2}{\delta_0 \delta_1} + \frac{1}{2} \frac{V_0 V_1}{\delta_0 \delta_1} + \frac{1}{2} \frac{V_0 V_1}{\delta_0^2} + \frac{1}{2} \frac{V_0 V_1}{\delta_0^2} + \frac{1}{2} \left( \frac{V_0 V_1}{\delta_0 \delta_1} + \frac{1}{2} \left( \frac{V_0 V_1}{\delta_0 \delta_1} + \frac{V_1}{2} \left( \frac{V_0 V_1}{\delta_0 \delta_1} +$  $\begin{array}{l} \text{PR} \left( \begin{array}{c} \Phi \\ \end{array} \right) := \frac{1}{4} \left( \begin{array}{c} +\frac{1}{4} \\ \end{array} \right)^{2} + 2 p^{2} (1 - p)^{2} \frac{V_{0} V_{1}}{\delta_{0} S_{1}} + p^{2} (1 - p)^{2} N_{0} V_{1} \left( \begin{array}{c} \frac{1}{\delta_{0}^{2}} + \frac{1}{\delta_{1}^{2}} \\ \end{array} \right) = \frac{1}{4} \left( p^{2} \left( \begin{array}{c} V_{0} - V_{1} \\ \overline{\delta_{0}} - V_{1} \\ \overline{\delta_{0}} - \begin{array}{c} V_{0} - V_{1} \\ \overline{\delta_{0}} - V_{1$  $\frac{Y_{0}^{2}}{S_{0}^{2}} - \frac{Y_{1}^{2}}{S_{0}^{2}} = 2p lep i \left(\frac{S_{1}}{S_{0}} - \frac{S_{0}}{S_{1}}\right) + (lep)^{2} \left(\frac{S_{1}^{2}}{S_{0}^{2}} - \frac{S_{0}^{2}}{S_{1}^{2}}\right)^{2} = (lep) \left(\frac{S_{1}}{S_{0}} - \frac{S_{0}}{S_{1}}\right) \left(2p + (lep) \left(\frac{S_{1}}{S_{0}} + \frac{S_{0}}{S_{1}}\right)\right), \quad (p, \pm p_{2})$  $\Delta = \frac{V_{0}V_{1}}{S_{0}S_{1}} \left( p_{1}^{2}p_{2}^{2} - p_{1}^{2} (1-p_{2})^{2} \right) + \frac{V_{0}^{2}}{S_{0}S_{1}} \left( p_{1}p_{2}(rp_{1})(1-p_{2}) - p_{1}p_{2}(rp_{1})(1-p_{2}) \right) + \frac{V_{1}^{2}}{S_{0}S_{1}} \left( (1-p_{1})^{2}(1-p_{2})^{2} - p_{1}^{2}(1-p_{2})^{2} \right) = \frac{V_{0}V_{1}}{S_{0}S_{1}} \left( -p_{1}^{2} + 2p_{1}^{2}p_{2} + (1-p_{1})^{2} (1-2p_{2}) \right) + \frac{V_{1}^{2}}{S_{0}S_{1}} \left( 2p_{2}-1 \right) \left( p_{1}^{2} - (1-p_{1})^{2} \right)$  $T = p_{1}p_{2}\left(\frac{1}{\delta_{0}}, \frac{N_{1}}{\delta_{1}}\right) + (1-p_{1})(1-p_{2})\left(\frac{\gamma_{1}}{\delta_{0}} + \frac{N_{0}}{\delta_{1}}\right), \quad \text{If } \int_{0}^{\infty} \frac{1}{\delta_{0}} \left(\frac{1}{\gamma_{2}} + \frac{1}{\gamma_{2}} + \frac{1}{\gamma_{2}}\right)^{\frac{1}{\gamma_{2}}} + \frac{1}{2} \frac{1}{2}$  $\left( \frac{\chi_{1}}{\xi_{1}} + \frac{\chi_{2}}{\delta_{1}} \right) \frac{\zeta_{2}}{\xi_{3}} + \frac{(1-2\chi_{0})^{2}}{\xi_{3}^{2}} \frac{\xi_{2}}{\delta_{1}^{2}} \left( (1-2\chi_{0})^{2} \frac{\xi_{2} \xi_{1}}{(2\rho-1)(\xi_{1}-\xi_{0})} \right) \left\{ p^{2} \left( \chi_{0} \left( \frac{1}{\xi_{2}} - \frac{1}{\xi_{1}} \right) + (\xi_{1}p)^{2} \left( \frac{1}{\xi_{1}} + \chi_{2} \right) \left( \frac{1}{\xi_{1}} - \frac{1}{\xi_{0}} \right) \right\} \right\}$  $-\frac{(2p-1)[(-2\gamma_{0})^{2}}{\delta(-\delta_{0})}, = \sqrt{2}\left\{-\frac{(2p-1)\cdot 4}{\delta(-\delta_{0})} - 2p^{2}(\frac{1}{\delta_{0}} - \frac{1}{\delta_{1}}) - 2(6p)^{2}(\frac{1}{\delta_{0}} - \frac{1}{\delta_{0}}) + 1\right\}$ 

IE (W'g(Y, A)) = JAN IE (W'IE (g(Y, A) | AZLU)) = | W- | IE (g Ma (Yā, ā) lazlu) fazlu (azlu) Mazlu (azlu) = | W" IE (g (Ya, a) (aly) fAZLU (AZlu) MAZLU (AZlu) = | WT-1 | E (g(Ya, a) (alu) (-1) = f = | AZILU (AZILU) (AZILU) (AZILU) (AZILU) (AZILU) (AZILU) (AZILU) W.W.J. = f AT | AT-1, ELU . f ZT | AZT-1, LU . f AZT-1, LVT = fx1(A7-1, 200 · fz7 | AZ7-1, 27 · fAZ7-1, UY : ALS = | WT-1 | E (g (Ya, 5) | alu) (-1) - 27 1 | fAT (AT-1, ZLU) (AT, AT-1, ZLU) | MAZLU (AZTA) = | WT-1 1E (9 172, 5) (alu) fAZT-1, IV MA, ZT-1, IV = | W\_{7-1 | E | g(Y=,=) | alu ) f Lu | AZLUTI | f AZLUTI | M A, ZT-1, LU | W= 18 (g (Y=, a) | ==, (u) a fev ( == ) f | V= 1 | M=, ==, Lu

= \langle \witter \frac{1}{\tau\_{\\tau\_{\tau\_{\tau\_{\tau\_{\tau\_{\tau\_{\\tau\_{\tau\_{\\u\tau\_{\\u\up\u\_{\\unk\_{\tau\_{\\unk\_{\tau\_{\\unk\_{\tau\_{\\unk\_{\tau\_{\\unk\_{\\unk\_{\\unk\_{\tau\_{\\unk\_{\tau\_{\\unk\_{\\unk\_{\unk\_{\tau\_{\\unk\_{\\unk\_{\\unk\_{\tau\_{\\unk\_{\tau\_{\\unk\_{\tau\_{\\unk\_{\tau\_{\\unk\_{\\unk\_{\\unk\_{\\unk\_{\\unk\_{\\unk\_{\\unk\_{\unk\_{\\unk\_{\\unk\_{\\unk\_{\\unk\_{\\unk\_{\tau\_{\\unk\_{\unk\_{\\unk\_{\\unk\_{\unk\_{\unk\_{\unk\_{\\unk\_{\unk\_{\unk\_{\unk\_{\\unk\_{\unk\_{\unk\_{\unk\_{\\unk\_{\unk\_{\unk\_{\unk\_{\unk\_{\unk\_{\unk\_{\unk\_{\tau\_{\unk\_{\tau\_{\unk\_{\un\tiny{\unk\_{\unk\_{\unk\_{\unk\_{\unk\_{\\unk\_{\unk\_{\unk\_{\unk\_{\unk

 $\frac{(p^{3})^{2}}{4(p-1)} < \frac{\delta_{0}\delta_{1}}{(\delta_{0}+\delta_{1})^{2}} > \frac{\delta_{0}\delta_{1}}{(\delta_{0}+\delta_{1})^{2}} < \frac{1}{2} < \frac{1}{2(2p-1)}$   $p^{2} \leq 4p-2, -p^{2}+2(p-1)^{2} \leq 0, +p^{2}+\frac{1}{2}, +p^{2}+\frac{1}{2$ 22 - 20+1: (b-1) 5 - bz  $\frac{q_{22}}{4} \left( S_{3}^{2} + \left( (2 - \frac{r_{b}}{r})^{2} - \frac{r_{b}}{2} \right) = 4 \left( \frac{r_{b}^{2} - r_{b}^{2} + r_{b}^{2}}{2} \right) = 2 \left( 1 - \frac{r_{b}^{2} + r_{b}^{2}}{r_{b}^{2}} \right) = 2 \left( 1 - \frac{r_{b}^{2} + r_{b}^{2}}{r_{b}^{2}} \right)$ P(LL+1 = 8 | LL = 8) = EIP(L+1 | A+ = a) P(AL = h | L= P) = EPAL (L-PAL) PLA (L-PLA) = 5 (PALPLA) (1-PAL)(1-PLA) 6#8 PAPLA + (1-PAL/11-1-12) | α<sub>111</sub> | α<sub>111</sub> | α<sub>111</sub> | α<sub>111</sub> | α<sub>111</sub> | α<sub>111</sub> | α<sub>11</sub> PALPLA + (1-PAL) (1-PLA) 1 dis 1-y di-1 - 1 2 di-1 2-1 = 2 (E (E(--- | at, Fri Ev)) = 2 [E (E (Ar, 27, 5] we le (Flat (Je) ) + for (C-1)-27 (Ar far (E+1-)) ] = 2 [E (8 Ar, 27, 3] [We ) ] [E(1) | ar, [Vor) ] The state of

Y=m(A)+ 11+E, Y= 2 12 [4=5],

4 1 . At MALINE

f(all, ν, 1) το: δο κ μια (ροι, ρου, ροι, ρου) = μια (½ | ροι- ½ |, ½ | ρου - ½ |)

= ½ - μαχ (| ροι- ½ |, | ρου - ½ |)

δι ζ ½ = μαχ (| ρου- ½ |, | ριι - ½ |)

ξ f(α | θια |) = 1 (| μαχων | νον γ)

1 (τ : Δ (α | θια) = Δξαλ f (α | θ, ξει) - f(α | θ, ξει) - ξ (α | θ, ξει) - ξ

(US)

 $+ \gamma \left\{ \frac{4(2p-1)}{S_{1}-S_{0}} - 2p^{2} \frac{1}{\delta_{1}} - 2(1-p)^{2} \frac{1}{\delta_{0}} + p^{2} \left( \frac{1}{\delta_{0}} - \frac{1}{\delta_{1}} \right) + (1-p)^{2} \left( \frac{1}{\delta_{1}} - \frac{1}{\delta_{0}} \right) \right\} + \sqrt{\frac{4(2p-1)}{S_{1}-S_{0}}} + \sqrt{\frac{4(2p-1)}{S_{1}-S_{0}}} + \sqrt{\frac{4(2p-1)}{S_{1}-S_{0}}} - 2(1-2p) \frac{1}{\delta_{0}} \frac{\delta_{0}-\delta_{0}1}{S_{0}-\delta_{0}1} + \sqrt{\frac{4(2p-1)}{S_{1}-\delta_{0}}} - \sqrt{\frac{4(2p-1)}{S_{1}-\delta_{0}}} - \sqrt{\frac{4(2p-1)}{S_{0}-\delta_{0}}} + \sqrt{\frac{4(2p-1)}{S_{0}-\delta_{0}}} - \sqrt{\frac{4(2p-1)}{S_{0}-\delta_{0}}} + \sqrt{\frac{4(2p-1)}{S_{0}-\delta_{0}}} + \sqrt{\frac{4(2p-1)}{S_{0}-\delta_{0}}} - \sqrt{\frac{4(2p-1)}{S_{0}-\delta_{0}}} + \sqrt{\frac{4(2p-1)}{S_{0}-\delta_{0}}} + \sqrt{\frac{4(2p-1)}{S_{0}-\delta_{0}}} - \sqrt{\frac{4(2p-1)}{S_{0}-\delta_{0}}} - \sqrt{\frac{4(2p-1)}{S_{0}-\delta_{0}}} + \sqrt{\frac{4(2p-1)}{S_{0}-\delta_{0}}} + \sqrt{\frac{4(2p-1)}{S_{0}-\delta_{0}}} - \sqrt{\frac{4(2p-1)}{S_{0}-\delta_{0}}} + \sqrt{\frac{4(2p-1)}{S_{0}-\delta_{0}}} + \sqrt{\frac{4(2p-1)}{S_{0}-\delta_{0}}} - \sqrt{\frac{4(2p-1)}{S_{0}-\delta_{0}}} + \sqrt{\frac{4(2p-1)}{S_{0}-\delta_{0}}} + \sqrt{\frac{4(2p-1)}{S_{0}-\delta_{0}}} + \sqrt{\frac{4(2p-1)}{S_{0}-\delta_{0}}} + \sqrt{\frac{4(2p-1)}{S_{0}-\delta_{0}}} - \sqrt{\frac{4(2p-1)}{S_{0}-\delta_{0}}} + \sqrt{\frac{4(2p-1)}{S_{0}-\delta_{0}}}$ 

$$\begin{split} & \mathbb{E}\left(\Upsilon_{0}\right): & \mathbb{E}\left(\mathbb{E}\left(\Upsilon_{0}|L_{2},A:a\right)\right) : \mathbb{E}\left(\mathbb{E}\left(\Upsilon_{0}|L_{2},A:a\right)\right) :: m(a), \quad \mathbb{E}\left(\mathbb{E}\left(\Upsilon|L_{1}A:a\right) - m(a)\right) : 0, \quad g(L_{1}A): \mathbb{E}\left(L_{2}A\right) : 0, \quad a \in \mathcal{X}, \quad \Upsilon:= m(A) + g(L_{1}A), \quad \mathbb{E}\left(\Upsilon_{0}|A:a,L\right) : \mathbb{E}\left(m(a) + g(L_{1}a)(A:a,L)\right) : m(a) + g(L_{1}a), \quad \eta(L_{1}a) : g(A) - m(a), \\ & \mathbb{E}\left(\Upsilon_{0}\right): \mathbb{E}\left(\Upsilon_{0}\left(A:a\right) + g(L_{1}a)(A:a), \quad \mathbb{E}\left(\Upsilon_{0}\left(A:a\right) + g(L_{1}a)(A:a)\right) : \mathbb{E}\left(\Gamma_{0}\left(A:a\right) + g(L_{1}a)(A:a), \quad \mathbb{E}\left(\Gamma_{0}\left(A:a\right) + g(L_{1}a)(A:a)\right) : \mathbb{E}\left(\Gamma_{0}\left(A:a\right) + g(L_{1}a)(A:a)\right)$$

200 9 ([z, a, az)= 7.([z, a,) + m (a,, o) - m(a,, az), IE (Ya,, az | a,, b,) = IE (IE ( | a,, Ay [z]) | L, A, a,)

 $= IE(IE(-\{a,a_2,L_2\},L_1,a_1) = IE(\eta_1(\bar{L}_2,a_1) + m(a_1,0) | L_{\alpha_1},a_1) = m(a_1,0) + IE(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) ,$   $= IE(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) = IE(\eta_1(\bar{L}_2,a_1) + m(0,0) - m_{\alpha_1}(a_1,0) + m(0,0) - m_{\alpha_1}(a_1,0) ) ,$   $= IE(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) = IE(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) + m(0,0) - m_{\alpha_1}(a_1,0) ,$   $= IE(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) = IE(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) + m(0,0) + IE(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) ) ,$   $= IE(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) + m(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) + m(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) ) ,$   $= IE(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) + m(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) + m(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) ) ,$   $= IE(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) + m(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) + m(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) ) ,$   $= IE(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) + m(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) + m(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) ) ,$   $= IE(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) + m(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) + m(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) ) ,$   $= IE(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) + m(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) + m(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) ) ,$   $= IE(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) + m(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) + m(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) ) ,$   $= IE(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) + m(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) + m(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) ) ,$   $= IE(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) + m(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) + m(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) ) ,$   $= IE(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) + m(\eta_1(\bar{L}_2,a_1) | L_{\alpha_1},a_1) + m(\eta_1(\bar{L}_2,$ 

L)= h(L), 15 (u(A,L)-h(L) [A=a,L)=0, 15 (15(Y|A,L)-h(L) [4=a,L)=0, MMACT ~ Long),

 $|E(m(a,L))| = \int m(a,l) dl \int e^{-a(a,l)} f(l) dl \int e^{-a(a,l)} f($ 

1 ( ( Ta / A = a, Lz) = 1 | | ( Ta / A = a, Lz) | | L, A, Q = u, ) : m (a, L)

) v(\(\bar{a}\_2, \bar{L}\_2\) f(\(\bar{l}\_2 \bar{L}\_1\) = m\_1(\bar{a}\_2, \bar{L}\_1\) = \(\bar{k}(\bar{a}\_2, \bar{L}\_2\) \(\bar{L}\_1\), \(\alpha\_1\), \(\bar{l}\_2\), \(\bar{L

ほ(q(れ,し)) (a,し)), ほ(Y, |をは,し): m(1)+し:1E(Y, | m, し), は(に(Y | れん)) (に(Y | れん)) (に(Y | れんし))

= 1 (Ya | a., L,)

 $\frac{1}{\left(\frac{\eta(\bar{A}_{1}\bar{L})}{t_{1}}\left(\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}\right)}\right)}{\left(\frac{\eta(\bar{A}_{1}\bar{L})}{t_{1}}\left(\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A}_{1}|\bar{A$ 

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E (A/A) = 1E(A)
   (16)
                                                                                                                                                                                                                              TE (TE(A(A) - TE(A))-
                                                             \mathbb{E}\left(f(u)|v\right) = \mathbb{E}f(u)|EV|, \quad \mathbb{E}\left(f(u)|E(v(u))\right) = \mathbb{E}\left(vf(u)\right) = \mathbb{E}(v)|E[f(u)] = \mathbb{E}(v)
                                                                                          IE (ξÃτ-1= α-1) η (ā, ω) w (ā, ũ, ειμ) f (ατ | ατι, ων, ετ-1) = IE (ξÃτ-1= α-1) = IE (ξÃτ-1= α-1) σωντη
                                                                           4 = HE (The said E ( plated HE ( W flatu)) TE ( IE ( platur) HE ( SA - 22 - 1 3·W·flatur-1))
                                   \mathbb{E}\left(f(v)\,V\right) = \mathbb{E}\left(\mathbb{E}\left(f(v)|w\right)\,\mathbb{E}\left(v|w\right)\right), \quad \mathbb{E}\left(V|v,w\right) = \mathbb{E}\left(v|w\right), \quad \mathbb{E}\left(\mathbb{E}\left(v|v,w\right) + \left(v,w\right)\right) = \mathbb{E}\left(v|v,w\right) + \left(v,w\right), \quad \mathbb{E}\left(v|v,w\right) + \left(v,w\right) + \left(v,w\right), \quad \mathbb{E}\left(v|v,w\right) + \left(v,w\right), \quad \mathbb{E}\left(v|v,w\right) + \left(v,w\right) 
                                                                                                                                                                                                                                                                                                                                                                                                                                                        E(E(V|U,W)+(U,W)) = 1E(V+(U,W))
                                  - TE (V f(U, W)) = TE (IE (VIW) f(V, W)), U= ALUT, W= ALUT-1, V= (A-1=GT-1) W(E, Z, Z, Z) f(a, Z, Z, , LUZ)
                                                                                                                                                                  IE ([A=1, 3 W f | ALU, ) = IE(-- | ALU, 1), ΣΕ ([Aπ-1, 3] W(AL, & ετ) f(α, [π, 1, 1], επ))
                    ALUMI, 21) fz, (21 | ÁLUMI) L V, 1 2 1 (01 | 21, 21) f (01 | 27, 10, 27) MZ 27 (21 | ÁLUMI)
                   = 2 f (4) (1 f (2) (-1-1) - f (2) (-1-1) - f (2) (-1-1) = - = 1
                  IE ( m(ato, LUt) {Á, = a} w(a, L, E)) = IE ( n(at, LUt) · IE ( ( a = a) w (a, L, E) ) aLUt., ))
          |E\left(\{\widehat{A}_{1-1}=\widehat{a}_{1-1}\}, \left(\widehat{a}_{1},\widehat{L_{1}}\right)\right) : |E\left(\{\widehat{A}_{1-1}=\widehat{a}_{1-1}\}, \left(\widehat{a}_{1},\widehat{L_{1}}\right)\right) \times |E\left(\{\widehat{A}_{1-1}=\widehat{a}_{1},\widehat{L_{1}}\right) \times |E\left(\{\widehat{A}_{1-1}=\widehat{a}_{1},\widehat{L_{1}}\right)\right) \times |E\left(\{\widehat{A}_{1-1}=\widehat{a}_{1},\widehat{L_{1}}\right) \times |E\left(\{\widehat{A}_{1-1}=\widehat{a}_{1},\widehat{L_{1}}\right)\right) \times |E\left(\{\widehat{A}_{1}=\widehat{a}_{1},\widehat{L_{1}}\right) \times |E\left(\{\widehat{A}_{1}=\widehat{a}_{1},\widehat{L_{1}}\right)\right) \times |E\left(\{\widehat{A}_{1}=\widehat{a}_{1},\widehat{L_{1}}\right) \times |E\left(\{\widehat{A}_{1}=\widehat{a}_{1},\widehat{L_{1}}\right) \times |E\left(\{\widehat{A}_{1}=\widehat{a}_{1},\widehat{L_{1}}\right)\right) \times |E\left(\{\widehat{A}_{1}=\widehat{a}_{1},\widehat{L_{1}}\right) \times |E\left(\{\widehat{A}_{1}=\widehat{a}_{1},\widehat{L_{1}}\right) \times |E\left(\{\widehat{A}_{1}=\widehat{a}_{1},\widehat{L_{1}}\right)\right) \times |E\left(\{\widehat{A}_{1}=\widehat{a}_{1},\widehat{L_{1}}\right) \times |E\left(\{\widehat{A}_{1}=\widehat{a}_{1},\widehat{L_{1}}\right)\right) \times |E\left(\{\widehat{A}_{1}=\widehat{a}_{1},\widehat{L_{1}}\right) \times |E\left(\{\widehat{A}_{1}=\widehat{a}_{1},\widehat
               E ( { An = ha, 3, y ( à, [v ) 2 { w ( à, [, 2, 11, 27) } f ( b), [ b), [v , 2, 11] }
                              7= 1E[Y[AZLU] - mg(A) = [ (E[YalazLu] - m(a)) {A=a}, ] 7(aZLU) [(LuflaLut-1) = 0
                            Y= mg(A) + n(AZLO) + & => ((Yz)= m(a)), n= { X x=a} = ((E(Ya|aZLUt)- E(Yz|aZLUt)))
                . \( \langle \
                    1E ( { [ = = ] ( | = = ] W ( = = ] ) = 1E ( | = = ] W ( = = ) ) = 1E ( | ( = = = ] W ( = = ) ) = 1E ( | = = = ] W ( = = ) )
([(a=a) W | a Lv, = ) = [A=n] 2: 2000 (A) (10) [2] (at = at ) f(at)
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ΙΕ (ξΑ=== η (α=+1, LU+) W (α=2L)) = 1Ε (η (α=+1, LU+) Ε(ξΑ==] W (α=2L) | α LU+1)), γ L ΙΕ (ξΑ==].
      W (aZL) | aZ+1, 2VT), UT + E(+(97 | aZLW)W(aZL)(aZr.1, 207) = Z + (07 | aZr.1, 2V, 27)W(aL, Zr.1, 25)
      fz, (t, latin, LV), = [ W(al, Zin, ti) f(a, latin, LV, tr) fz, (t, latin, LV), Vin L [[ {A=s}.
     W(\widehat{atl}) | \widehat{at}_{\tau-2}, \widehat{Lv}_{\tau-1}), \quad V_{\tau-1} \perp \mathbb{E}(W(\widehat{atl}) f(\widehat{a_1t}, a_{\tau-1} \neq \widehat{a_{\tau-2}}, \widehat{t}_{\tau-2}, \widehat{Lv}_{\tau-1}) | \widehat{at}_{\tau-2}, \widehat{Lv}_{\tau-1})
     = (E(W(AZL) f[hr/ hir, train, LV Th) f(AZ-H[AZT-Z, LVT-1) [att-z, LVT-1), VT-1. L (E(W(AZL) [ATGAZA7]
       {A2-1 = 01-1} | QZ_{1-2}, LV_{7-1}) = IE (IE (WGEL) [A7 = 07] | QZ_{1-1}, LV_{7}) {A7-1 = 07-1} | QZ_{1-2}, LV_{71})
       = IE ( a ( LV 2-1) (A 2-1 = 10 2-1) | AZ 2-2, LV 2-1) = IE ( a (ALV 2-1) f ( az-1 & max at 2-2, LV 2-1) | Mest 2-2, LV 2-1)
      = w(alvan) f(am |Atan, Lvan) = 15 (w(atl)[Ar=an] atan, Lva) f(an | atan, Lvan) & malvan)
     \Sigma_{t_1} W(\overline{n}, \overline{\epsilon}_{\tau_1, \epsilon_T}) \prod_{t} f(n_t | \overline{n}_{t_1, i}, \overline{L} ) f_{\epsilon_T}(\epsilon_t | \overline{n}_{\epsilon_T, i}, \overline{L} ))
       W(AZL)) = 1E (9, (520) 1E ((A, = 57, 3) ((6, 127, ELU) W(AZL) ( ALUT.))), \( \frac{5}{4} \) \( \frac{5
What ) Francis En Low , If ( Tracking ) Mt (ALUET) IE ( (A=) W (ALL) ( ALUET)
   「Ac = nen ? 内(nt +1, lot) W(nt)) = 性(内(nt +1, lot) 関(A+1 = nen ) 性(可) (nt +1, tot) (nt) (nt))
   alve-1)}, mive-13 11: (1] f(axil-) W(azil) | $\frac{1}{4} \frac{1}{4} \frac{1}
    1Ε (η(aze, τωε) 1Ε (ξεπ) ω(αξι) (αξει, τωε)) = 1Ε (η(αξει, τωε) ((Α=λ) ω(αδι) (αξει, τωει)) (αξει, τωει)),
     . IE ( E ( -- | at_, IV, ) | at_, IV, ) - VE ( ta, Va, Ve) II W (att ) | at_, IV)
     2 m Ev 2-1, E( 15 ( +( +1, 1) Alfrag a, 2) El, V, 1) f (aren) -) w (222 7, 1 w (222 7, 1) (222 7, 1) (222 7, 1) (222 7, 1) (222 7, 1) (222 7, 1) (222 7, 1)
    (E ( ? Aza ) Mar ((wall) | a 2 -1, Luz) & Emaluza), [E ( [E ( [Azz ] Aw (all) | a27-1, Luz) | a27-1, Luz))
     = E((A=A) W(AZL) (AZL) (AZL) = (E((AZL=Squ)) f(ay (BAZL) (AZL) (AZ
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\frac{\partial \mathcal{D}}{w_{01}w_{10}} = 1 - \frac{1}{w_{01}} + \frac{w_{00}}{w_{01}} + \frac{1}{w_{01}} = \frac{1}{w_{01}} + \frac{1}{w_{02}} = \frac{1}{w_{02}} + \frac{1}{w_{02}} + \frac{1}{w_{02}} + \frac{1}{w_{02}} + \frac{1}{w_{02}} + \frac{1}{w_{02}} = \frac{1}{w_{02}} + \frac{1}{w_{02}} +
                                 Walter ho wor (Poo wor + & Poi) + tath h, w, ( wor Pro + Pri) = ch
                                    ho (1+ woo ( 1/20 -1) ) ( por 1/20 + por) + ho wil ( pro 1/20 + por) = pro 1/20 (-himin tho + ho vo (1/20-1))
                                 +{h, (1+ wo (\frac{1}{\omega_{15}}-1))/\overline{pol} + h, \omega_{11} \frac{1}{\omega_{10}}} \frac{\omega_{10}}{\omega_{10}} \frac{1}{\omega_{10}} \frac{
                                    woo (howo, poo +h, w, pio) + poi (howo, -h, w, ) +h, w, = ch
                                                        por (howor - hivio) + por (howor - hivin) + h, wie +h, wir = ch
                     ho (Poukoword + Poikowoi) (1- ho woo) + hi (wiotwii) = ch, (pouvoo + poi woi) (+ ho woo) + ho (1+ woo) = ch
                     Pro was + Porwar + ho {1 + wio (1 - Poowoo - Porwar)} = (ho
                         POLU-POLO ( GILL - GOLD GILO) + GOLD GILO = 3110 + POLU & SULO & 
                        + POLO POLI (PILI - POLO), POLU ( BILI - GOLI BILO - BILO + PILO - POLO POLO)
                              = - \frac{\frac{1}{2000}}{\frac{1}{2000}} + \frac{\frac{1}{2000}}{\frac{1}{2000}}} + \frac{\frac{1}{2000}}{\frac{1}{2000}} + \frac{\frac{1}{2000}}{\frac{1}{2000}} + \
                    (1 - (1- POLI) (1- PILO) POLIPILO
POLO POLO POLIPILO
1- POLO - 1 + POLO - 1 + POLO - POLIPILO - POL
                             1-POLO + POLO + POLO (PILO-POLO) - POLIPILO = PILO POLO POLI-POLO POLI-POLO
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Mos = W10 ) W00 = W10 + 1 - W10
                                                                                                        100 = mil + min -1; min (-1+ min) = mil -1
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η(ALU<sub>t</sub>) - IE (η(ALU)(ALU<sub>t-1</sub>), Que IE ((Ā=ā)η(ALU<sub>t</sub>) W(ALt)): IE ((Ā=ā) IE (η(ALU<sub>t-1</sub>) W(ALZ))
      = 16(1ALAS y(ALU) 16((x=3) W(ALE)(ALUE)), 15((AZZ) W(ALE)(ALUE)= 16(-|ALUE-1),
         AZLU ) fz (Z/MALU) & M (ALUTI), ..., M (LUO), IE ( (A=2) WIALL) | ALUTI = 1E(1E(- | ALUTI) | ALUTI)
       = [E ( [A=4] ] = W(ALL) f(an | 2) f = [E | AL) | ALUTA) = 1E ( [A=9] , W(ALB), ALD) | + LUTA) , ALUTA)
       ALUT, ZT-1) (ALUT) = E( (A-1)WT-1 & f(a, 197-1, Lu) W (aLZT-1, ZZT) WATER ) ATTO ) ATTO )
     aralung): MARRY 1E (FA-Nin Wr. | aralung), 18 (ALt) - 18 (ALt), and At=at = y(aLt) - 18 (ALt) alt
    1 [ ( | ( aL e ) | al e . ) , If ( {A=n}, w(alt) n ( aLV, ) ) = IE ( {A=n}, w(alt) Marly 1/2 ( n ( aLV , ) ) =
     IE ( & q ( an LU) IE ( & A = 3 W ( al 2 ) | aLU 7-1), MAZZETAN IE ( & A = 23 W ( all ) ( an ( LU 7-1) ),
     15 ([A=2]-1 + (a, [a, , LUZ) | a, LUZ) = (A=1) = (A=1) = f(a, [a, , LU, E) w(al E) EMLU [-1] m(LU [-1]) 3
     1 ( ( ) A= = 3 W(alt) | G= 2 LU7-1) = 1 ( ( ( ) A= = 3 W(alt) | a= , LU ) | A= -2 LU= , ) = 1 ( ( ) A= = 3 W(alt) | a= , LU )
     E(E(f(A, Tz) | I, M) | LOA) & AREAT IE/F(YT) X, Y) = 1E(f | E(f(X, Y) | X, Z) = 1E(f(X, Y) | X) ,
      15 (f(x, x) g (12) [x) = 18 (f(x, x) |x) 16 (g(2) |x)
       1 (AZerLUE) - 1E(y (AZErlUE), E(já=n3W (ALZ) (AZELUE)), KM (AZLUE), KM (AZLUE)), KM (AZLUE))3
Z<sub>1,1</sub>, L<sub>1</sub>) f<sub>21</sub>(t<sub>1</sub> | 2, a<sub>1-11</sub> 2<sub>7-11</sub>, L<sub>U<sub>1</sub></sub>) ♥, ||E((A<sub>1</sub>-4<sub>1</sub>) W<sub>1</sub> | AZ<sub>1-1</sub>, L<sub>U<sub>1</sub></sub>) € m(AZ(U<sub>1-1</sub>),
       KEALAS METALLAS METAL
       = E ( ( (Associus) E (A=a) w (Ala) ) & ALVS, )), The file ( h(a) My (ALWE) w (ALZ)) = E ( ( ( Associus)
      1 = (h(x) 2 A 3 $ WLALE) | ALVEN)), [E(h(A) y(ALLU) W(ALZ)) = [E(y(ALLU) | E(h(A) W(ALZ)) | ALVEN)],
      [E ( h(A) w(Alz) | A_{6-1LU_2}) = IE ( h(A) w(Alz) | ALU_{4-1}), IE ( {A_7-A7} w(Alz) | A_{7-1LU_7}) = Z f(a_7 | A_{7-1LU_2}) w(A_{7-1})
      Cy, L&) fz(E). Em (ALVM),
                                                                                                      \mathbb{E}(g(u)V|X,Y) = \mathbb{E}(g(u)V|X), \mathbb{E}(g(u)V|X)
       1E(X|Y,2)=1E(X|Y), [E(X|Y)=1E(X|Y)1E(h(2)|Y),
         (glu) vix) le [h(41/x)
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WOUL = POLO (1- WOIL PILU) WOOL POLU + WOILPILU = &1 POLO (1- WOIL PILO) = POLI (1- WOIL PILI) W101 26020 + W112 8120 21 Woll = ( Poll - Polo) - ( Poll - Polo) = Polopili - Polipilo , Wool = Polipilo PULI-PILO & WILL = 8020-8021 PULO ; WIOZ = 8121-8120 PULOPILI- POLIPILO ; BULO 8121-80218120 (1- poro)(1- pin) - (1- \$ Por) (1- PINO) = PORO PIN - PORO-PINI - PORIPINO + PORI + PINO, WILL = POLI-POLO - POLO-PILITPOLITPICO = 1 - WOIL + PILO-PILI = 1 - WOIL + WOOL WOIL ) WIOL PILO-PILI = 1- WOOL + PILO-PILI = 1- WOOL + WOOL WOOL WILL WILL ) WOIL: = -1+WOIL +WOOL = WOOL ) WOIL = (WOVL-1) ( WILL -1)-1 , WOOL = WOOL-1+WOIL = WOOL-1+ WILL (WOOL-1) | VOOL = NOOL-1 + WOO WID ) WOO = ( 1 / WID ) (-1 + W1, -1 ) , Wazi=1, Pzzv= \$ & zv = P(A=0| 200) = PLU + FI) = Szv, WOOL PLO towar better that he would pro + he woll (pro + Sio) + h, wood (1- pro) + h, will (1- pro- Sio) = \$ch PLU (WOUL +WOIL) + WOIL SLU + ho { PLU (-WIOL - WILL) + WIOL + WILL (1. SLU) } = 400 PLU (WOULTWOIL - The (WOLL + WILL)) + SLU (WOIL - his WILL) + his (WIUL + WILL) = The PLV (Work twoir) + Sie Worl = Worr ( PW + Sie) + PLV Woor = Cho,o ho = e, A(PW) Sport (pw = \frac{1}{2} + (-1) - 00) , Sw = (word - \frac{h\_0}{h\_0} w\_{11})^{-1} \left\{ \left\{ \frac{1}{2} + (-1) \left\{ wood -woll) - he (wor +vill) + ho } ( wan=1), = (1- ho)-1 {(\frac{1}{2}+(-1)^{\frac{1}{10}}-1)-2 \ho + \frac{1}{ho} + \frac{1}{ho}} } POLY - POLO - POLO - POLO GILLO - GOLLA GILLO , GILLO - GOLLA GILLO - GO PULO-POLU

(29) E( (A, = a) W (AZZ) E (h(A) y (AZZ, EUZ) W (AZZ) = E (h(A) W (AZZ) E (2 (AZZOL)) = E (y (AZZOL)) 15 (h (A) W(ALE) (AZLV6-1)), 15 (h(A) W(ALE) (AZE-1, LV2) = 15 (h(A) W(ALE) (AZLV6-1), HASSING 1878) Wi-1 15 ( {A, - m, 3 W, | Atz-1 Lu | = Winn 15 (flan | Amitio) w, | - ) = Di-1 & flan | ti- ) W, (b, ) f(ti-), ξ f(n, (2, -) ω, (2, ) f(2, 1 -) ε m(A τιορ, ), PoarvotPoi voi = &, Provio + Pii vii = B; En woo - Pio voo + Woi - Pii voi = x, Pro= 1 woo - a two - Pro Word, Pro = (WII - WOO WOO) - (B- WOO (WOO - a two)) 2 m (ALZ),  $\frac{w_{ij}}{w_{ij}} = \frac{w_{i0}}{w_{i0}}$ ,  $\frac{w_{i0}}{w_{i0}} = \frac{w_{i0}}{w_{i1}}$ ,  $\frac{w_{i0}}{w_{i0}} = \frac{w_{i0}}{w_{i0}} = \frac{w_{i0}}{w_{i0}}$ ,  $\frac{(r - p_{i0})}{r} = \frac{w_{i0}}{w_{i0}}$ ,  $\frac{(r - p_{i0})}{r} = \frac{w_{i0}}{w_{i0}}$ (1-Por) Por = 13 = 1-Por = 16 por = 100 por = 1-B 0 = pootwoo Por (wu, + woo - B wo), B= woo wo, + wo - w, + wo, 1-Piv - w, B= wig (i+ (1-pi) wig) + pi wil = wig + wil (1-pi) + pi wil = wil + wil 1) & 2 2000 + poi was \* Pro + Poi W = Pio + Pi W = 1-Poo + W- Wpor, W= Pou-Poi = 2pin-1 1100 + Pulw = a, plo+P2 2 2= B, 1-P00 + (1-P01)w=B, Ft. w mply = x+B, potent = x

$$\begin{split} & \|\mathbb{E}\left(\Upsilon_{\overline{a}}\|_{A:\overline{a},\overline{\epsilon}LU}\right) = \|\mathbb{E}\left(\Upsilon_{\overline{a}}\|_{A_{\overline{a}},\overline{\epsilon}LU}\right) = \|\mathbb{E}\left(\Upsilon_{\overline{a}}\|_{A_{\overline{a}},\overline{\epsilon}LU}\right), \quad \|\mathbb{E}\left(-\|\mathbb{a}\frac{1}{\epsilon}\frac{1}{\epsilon}LU_{\overline{a},\overline{\epsilon}LU}\right) = \|\mathbb{E}\left(\Upsilon_{\overline{a}}\|_{a_{\overline{a}},\overline{\epsilon}LU_{\overline{a},\overline{\epsilon}LU}}\right), \quad \mathbb{E}\left(-\|\mathbb{a}\frac{1}{\epsilon}\frac{1}{\epsilon}LU_{\overline{a},\overline{\epsilon}LU_{\overline{a},\overline{\epsilon}LU}}\right) = \|\mathbb{E}\left(\Upsilon_{\overline{a}}\|_{a_{\overline{a}},\overline{\epsilon}LU_{\overline{a},\overline{\epsilon}LU}}\right) = \|\mathbb{E}\left(\Upsilon_{\overline{a}}\|_{a_{\overline{a}},\overline{\epsilon}LU_{\overline{a},\overline{\epsilon}LU}}\right) = \|\mathbb{E}\left(\Upsilon_{\overline{a}}\|_{a_{\overline{a}},\overline{\epsilon}LU_{\overline{a},\overline{\epsilon}LU}}\right) = \|\mathbb{E}\left(\mathbb{E}\left(-\|\mathbb{a}\frac{1}{\epsilon}\frac{1}{\epsilon}LU_{\overline{a},\overline{\epsilon}LU}\right)\right) + \|\mathbb{E}\left(-\|\mathbb{a}\frac{1}{\epsilon}\frac{1}{\epsilon}\frac{1}{\epsilon}LU_{\overline{a},\overline{\epsilon}LU}\right) + \|\mathbb{E}\left(-\|\mathbb{a}\frac{1}{\epsilon}\frac{1}{\epsilon}LU_{\overline{a},\overline{\epsilon}LU}\right) + \|\mathbb{E}\left(-\|\mathbb{a}\frac{1}{\epsilon}LU_{\overline{a},\overline{\epsilon}LU}\right) + \|\mathbb{E}\left(-\|\mathbb{a}$$

13 b + nb ( 1,5,00 (1,5) +5) 1,5 + (+0.15 (1-1) +p) +p) (+5,1-5,10) W(1-1,5,10) N(1-1,5,10) N) 1-12 b (, U9 1, p) f -- (5-12) (8-12) f (9-12) f (9-12) f (1-12) f (1-12) f (1-12) f (1-12) 2 = 2-101 (1072-14 1-1072-14 1-1072-14 MM) 41 -(17074/(24)m(47)) 31 = 1-9 = 5 ((52 (1-9 M) (124) M (104)) 31 = (307 1-9 24) (224) M (4)4) 31

(AIP)=1 5. \$ = (AIP)=1 5. \$ = (AIP)=1 5. \$ = (AIP)=1 5. \$ = (AIP) = (A

12012-134 ((TU1, 1754 | WJ) ] = 5-12-514 ((NU1, 5-154 | WZ) ] = (1-174, 54) WZ) ]

= [ ( 1-1012-15A ) ( 104 1-15A ) W ( 101 1-15 1 ) ] [ 1-12= 1-1A } ) ] ] =

2-14 | (1-1772-124 (1-1773) M 2 12=143) 31 2 12 12 13 ) 31 } ARM

(1-701 5-1-5) ] [(1-101 p) [(1-101 p) [(1-101 p) ] = 1 1-141 5-15A (1-1055A) W (7257A) 31) 31 =

( 1 2 ) m 3 ( 1, 1 ) 1 ( 5 p g d b) 1, 1 = 5-1 + ) ( 2 1 - 5-1 + )

 $\frac{w_{10}}{w_{00}} = \frac{w_{01}}{w_{00}} w_{10} - w_{10} - 1$ ,  $\frac{1}{w_{00}} + \frac{1}{w_{10}} = \frac{w_{01}}{w_{00}} - 1$ ,  $\frac{1}{w_{10}} = w_{01} - w_{00}$ ,  $\frac{1}{w_{01} - w_{00}} = \frac{1}{w_{11} - w_{10} - 1}$ ,  $\frac{1}{w_{01} - w_{00}} = \frac{1}{w_{11} - w_{10} - 1}$ ,  $\frac{1}{w_{01} - w_{00}} = \frac{1}{w_{11} - w_{10} - 1}$ P1 = Woi' (1-Wospo) = = (1-2 P0), lowerpoth [ ([A=0] ho Woog Lu) + [ ([A=1]h, wing lu) = ho (Woopo + Woipi) + hi (Wio Pho (1-70) + Wii (1-pi)) = ho (woopo + Worpi) # hi (Wiopo + Wiipi) = ch 4 - hi (Wio twii) = ho ( = po + 1 - = po) - hi ( = po + 1 - = po) = ch - hi = ho mino = ho must no -1 1- = Po) + hi ( = Po) + = (1- = + = Po) = ho + hi (2-2po+4-P+2po), = + + - P+2po), = + + - P+2po), 2 - + 4 (1-1 + 10) / 2-e (1-1 + 10) / 2 , Noi (1-Nospo) = Follow po) - Wio (po + 1 - Wii) / 2-e (1-1 + 1- Wii) = - \frac{\warpooldown}{\warpooldown} \f - 2 Po - 2 - 2 - 2 Po + 4 = P 2 Po + 4 = P 2 Po + 1 = P 2 Po + 1 = P 2 Po + 2 - 2 (1-2p) - 2-p +2 - - 1 +po -1+1 +2 = police ho ((woo po + woi ) po + woi ) = c, win = to, wio ( = -1) = wy -1 n = from to gray to for wio -1;  $w_{10} = \left(\frac{1}{a} - 1 - \frac{1}{a}\right)^{-1} = \frac{m \alpha}{1 - p - \alpha}, \quad w_{11} = \frac{p}{1 - p - \alpha}, \quad \alpha p_{0} + p_{1} = 1, \quad \frac{\alpha}{1 - p - \alpha} \left(1 - p_{0}\right) + \frac{p_{1}}{1 - p - \alpha} \left(1 - p_{1}\right) = \frac{\alpha + p_{1} - 1}{1 - p - \alpha}$ 

= 15 ( 15 ( ... / A Ez-1, LU+)) =

	• *		

g: A->R, g: a+> inf d(a,b), gèlo, mo inf(lmg)=0=> [an3 cA, [bn3 cB, d(an,bn)->0] => an EB=B. (g E? l°) b EB: d(a, b) < g(a) + E, d(a) | la-a'| < 8 => d(a', b) < 8 + g(a) + E, 1g(n)-g(n') | x S+E 3 grade gett Zn:= { ZEC: f''(z) = 0 }, |Zn|= Mo, |UnZn|= No, don =7 n: Zn = @ #2 g = 0 => f = 0, (g ≠ 0) t = t(g) => r, (D(t;r)/t) ∩ t(g) = Ø, t' € D(2,1), 2'+2 => | fg(i) =1, go; g fg(t):= go, fg flanon 2 H(D(2,1)), fg = e #3 When  $= \left| \frac{f(z)}{A+B|z|k} \right| \leq 1$ , for constants  $f \in H(D(0,r))$ ,  $r \approx 20$ ,  $f^{(n)}(0) \leq \frac{n!}{r} \left( \frac{A+B|z|k}{r} \right)$ Ma = n! A + Brk-n -20 & <= k < n, Mo Conta, f(z)= \( \tilde{\tilde{\text{L}}} = c\_j \tilde{\tilde{\text{L}}} \\ \frac{\tilde{\text{L}} - f\_n)(w)}{v - z} dw = f -fn)(z) the w (f-fn)(z) = (f-fn)(z) for w-z dw - 20, f(f-fn)(w)-(f-fn)(z) dw -> 0, And (f-fn)(w) - (f-fn)(w) + (f-fn)(w) + (f-fn)(w) - (f-fn)(t) | < M, with the model of the 16 - fn)(w) - (f-fn)(w) - (f-fn)(z) = (f - fn)(z) d(z) = (w-z) (f-fn)(2/4(t)) dt, + fn/(2/4-fn)(2/4-fn  $\int_{\Gamma} f(v) - f(z) = \int_{z \to w} f(\zeta) d\zeta = (w - z) \int_{0}^{z} f(\zeta(u)) d\zeta + \int_{\Gamma} \frac{f(w)}{w - z} dw = \int_{\Gamma} \frac{f(\zeta)}{w - z} + \int_{0}^{z} f(\zeta(u)) d\zeta du$ = 420/lody(2) + f fo f'(2(4))dt dw , fr = f f(v) - f(z) + f f(z) \\ \frac{f(z)}{v-z} = f \\ \frac{f(v)}{v-z} = f \\ \frac{f(v)

 $\begin{array}{c} D(I_{1}I) = \left\{1 + re^{i\theta} : 0 \le reI_{1}, 0 \le \theta < \nu \pi_{1}\right\}, & 1 + (\cos\theta + irs +$ 

$$\begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ 0 & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ 0 & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ 0 & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ 0 & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ 0 & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ 0 & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ 0 & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ 0 & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ 0 & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ 0 & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ 0 & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ 0 & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ 0 & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ 0 & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ 0 & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ 0 & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ 0 & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ 0 & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ a_{i}, & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ a_{i}, & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ a_{i}, & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ a_{i}, & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ a_{i}, & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ a_{i}, & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ a_{i}, & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = \begin{cases} a_{i}, & |a_{i}| < c \\ a_{i}, & |a_{i}| < c \end{cases} \end{cases} , \begin{cases} \{(c) = (a_{i}, |a_{i}| < c |a$$

D.d. #

$$\begin{cases} e^{a(\cos x) + 2e^{-x}} - 2e^{(a \cos x)} + e^{(a \cos x) + 2e^{-x}} \\ + e^{(a \cos x) + 2e^{-x}} - 2e^{(a \cos x)} + e^{(a \cos x) + 2e^{-x}} \\ + e^{(a \cos x) + 2e^{-x}} - 2e^{(a \cos x)} + e^{(a \cos x) + 2e^{-x}} \\ + e^{(a \cos x) + 2e^{-x}} - 2e^{(a \cos x)} + e^{(a \cos x) + 2e^{-x}} \\ + e^{(a \cos x) + 2e^{-x}} - 2e^{(a \cos x) + 2e^{-x}} - 2e^{(a \cos x) + 2e^{-x}} \\ + e^{(a \cos x) + 2e^{-x}} - 2e^{(a \cos x) + 2e^{-x}} - 2e^{(a \cos x) + 2e^{-x}} \\ + e^{(a \cos x) + 2e^{-x}} - 2e^{(a \cos x)$$

\*

R25

 $Res = \frac{1}{n e^{i \pi n}} = \frac{1}{n e^{i \pi n}} = \frac{-2\pi i e^{i \pi n}}{n \left(1 + e^{i 2\pi n}\right)} = \frac{-2\pi i}{n \left(e^{i \pi n} + e^{i \pi n}\right)} = \frac{\pi 2\pi i}{2\pi n \left(e^{i \pi n} + e^{i \pi n}\right)} = \frac{\pi 2\pi i}{n \sin \pi n} = \frac{\pi \pi}{n \sin \pi n}$  $f(z)-f(z_0) = \text{Add}(z-z_0)(f'(z_0)+z(z)), \quad h(z)-h(z_0) = \text{Ag}(\omega)-g(\omega_0) = (z-z_0)(h'(z_0)+\eta(z_0)),$   $\frac{g(\omega)-g(\omega_0)}{\omega-\omega_0} = \frac{h'(z_0)+\eta(z)}{f'(z_0)+z(z)} = \frac{h'(z_0)}{\omega-\omega_0} = \frac{h'(z_0)}{(z_0)+\eta(z_0)} = \frac{h'(z_0)}{(z_0)+\eta(z_0)}, \quad f \neq H(\Omega_1), \quad g \in C, \quad h \in C.$ f(w) = (w-wo) = for c; (w-wo) = : (w-wo) = for (w), for (wo) = 0, g(z) = (q(z) - q(zo)) = for (q(z)) = for (q(z)) = for (zo) = 0.  $f_{0}(\omega) \neq 0$ , =  $(\phi'(z_{0})^{6} + \epsilon(z))^{m} (z - z_{0})^{m} f_{0}(\phi(z)) = (z - z_{0})^{m} f_{1}(\phi(z)) + (\phi'(z_{0}))^{m} f_{0}(\omega) \neq 0$ , d'(b)+E(z)= (2-20) & H(si) , d'(z) = (2-20) (2) + E(z)) + E(z)) + E(z)) + E(z)) · Ab (2-20) ~ fo (2) 4 0 0 = (2-20) 20 y(2) ~ (1+ \frac{\epsilon(2)}{(2-20)} \frac{\epsilon}{\epsilon(2)} \frac{(2-20)}{(2-20)} \frac{(2-20)}{(2-20)} \frac{\epsilon}{\epsilon(2)} \frac{(2-20)}{(2-20)} · fo(z) } =: (z-zo) (kn) fz(z), fz(zo) to, 4+ (z-zo) k = (z-zo) k+1 NAMA : q'(z)+ E(z) (z-zo) k,  $\xi(t) = \frac{q(t) \cdot q(t)}{t \cdot t_0} - q'(t_0), \quad (\xi \cdot t_0) \cdot \xi(t) = \int_{-\infty}^{\infty} c_j(t \cdot t_0)^j - (t_0 - (t \cdot t_0)) \int_{-\infty}^{\infty} (j + 1) c_{j+1}(t - t_0)^j = \int_{-\infty}^{\infty} (1 - j) c_j(t - t_0)^j dt_0,$  $(t-t_0)^{\frac{1}{2}}$ , then  $c_1 = \dots = c_m = 0$ ,  $\frac{\xi(z)}{|b-t_0|^m} \in \mathcal{H}(\Omega_1)$ ,  $f_2 \in \mathcal{H}(\Omega_1)$   $\frac{\sharp 15}{\sharp 15}$   $g(t, \omega) := \frac{\varphi(t, b_0) - \varphi(\omega, b_0)}{z - \omega}$ (2+w), = Jz (2,6) (22w), to EX, g: \$1 x \$1 -> C, => g & Co(-0 x \$1), 12 x > N:=  $\frac{4.0}{w,t \in K \times K} \left[ g\left(z,w\right) \right], \quad \left[ \frac{\varphi\left(z,t\right) - \varphi\left(w,t\right)}{fz - w} \right] = \left[ \frac{\varphi\left(z,t\right) - \varphi\left(w,t\right) + \varphi\left(w,t\right)}{z - w} \right] + \left[ \frac{\varphi\left(z,t\right) - \varphi\left(z,t\right) - \varphi\left(w,t\right) + \varphi\left(w,t\right)}{z - w} \right]$  $+ \left| -- \left| \left\{ \left| t - \nu \right| \leq \delta \right\} \right\}, \quad \left\{ \frac{q(t_i t) - q(w_i t)}{t_{\overline{w}} \nu} \right\} = \left| p'(w_i t) + \epsilon(t_i t) \right| \leq \frac{M}{\delta} + \sup_{t \in \mathcal{W}} \left| \epsilon(t_i t) \right|,$  $\text{ELLIPS } q \in \mathbb{R}[t] = \sum_{j=0}^{\infty} c_j^{(k)} (z-\omega)^j , \qquad \text{ELLIPS } \frac{q(z,t)-q(\omega,t)}{z-\omega} = \sum_{j=0}^{\infty} c_j^{(k)} (z-\omega)^{j-1} , \qquad z(z,t) = \sum_{j=0}^{\infty} (z,t) = \sum_{j=0}^{\infty} c_j^{(k)} (z-\omega)^{j-1} ,$  $- j c_{j}^{(t)} (t-u)^{j-1} \} = \sum_{j=1}^{\infty} (t-j) c_{j}^{(t)} (t-u)^{j-1} = \sum_{j=1}^{\infty} c_{j}^{(t)} (t-u)^$ ≤ \$\frac{1}{2-\omega}\left\\ \frac{\int\_{j+2}}{z^{2}}\left\|  $(2-\omega)^{j-1}$ ,  $(2-\omega)^{j-1}$  =  $(2-\omega)^{j-1}$  =  $(2-\omega)^{j-1}$  =  $(2-\omega)^{j-1}$   $\sum_{k=1}^{\infty} |(j-1)|^{2k} |(2-\omega)^{j-1}|$   $\sum_{k=1}^{\infty} |(j-1)|^{2k} |(2-\omega)^{j-1}|$ = [ 1 9(2,0) 0 =: Mo = 10 , Map | 200 | 5 8 5 c(1) = SMo #16

Rudin #5 - mai = Res (fisa), in lyferde = I Ris (fier, a) = a I manar. in lyferde  $= \sum_{n} m(n) q(n) \frac{1}{f} \frac{1}{3} \left( \frac{1}{f} - \frac{9}{3} \right) \left( \frac{1}{3} \right) = 0, \quad f = c.g + \frac{19}{3}$ (uxvturx)x + (uyvtury)y = uxxvtluxvx turxx + uyyvtznyvy turyy = 2(uxvx + uyvy) == 0, ux + uy  $=0, \quad u_{x}=u_{y}=0, \quad u=c. \quad |f|^{2}=u^{2}+v^{2}+u_{y}, \quad |f|^{2}=u^{2}+v^{2}+u_{x}+v_{$ vvxx + ug + uung + vg + vvyy) = 2 (u(uxx+uyy) + v(vxx+vyy) + ux + vx + ug + vg ) = 2 (u + (u) + v + (v) + (fx)2 f= 4 u2 v2 + i(zuv), Z(uux - vgx) x + z(uuy 4 vvy)y= 2 (q, ux + uuxx - vx - vvxx + uy + uuyy - vy2 - vvyy)  $= 2(u_x^2 + u_y^2 - v_x^2 - v_y^2) = 0, \quad u_x^2 + u_y^2 = v_x^2 + v_y^2, \quad (u_x v + u_{v_x})_x + (u_y v + u_{v_y})_y = \frac{2}{8} u_x v_x + 2 u_y v_y = 0,$  $-\frac{u_{x}}{u_{y}} = \frac{v_{y}}{v_{x}}, \quad \text{fluy}\left(1 + \frac{v_{y}^{2}}{v_{x}^{2}}\right) = v_{x}^{2} + v_{y}^{2}, \quad u_{y}^{2}\left(v_{x}^{2} + v_{y}^{2}\right) = v_{x}^{2}\left(v_{x}^{2} + v_{y}^{2}\right), \quad u_{y}^{2} = \pm v_{x}, \quad u_{x} = \mp v_{y}$ | uxx uxy | = -uxx - uxy (0) | u = Ref, uxxx + uxyy to usboth, uxyy =:  $u_{yxy} = u_{yyx}$ ,  $f(u_x) = (u_{xx} + u_{yy})_x = 0$   $\frac{\partial c}{\partial x} = \frac{x}{v_x v_y^2} = \frac{x}{r}$ ,  $\theta = t_x c_y^2 = t_x c_y^2 = t_x c_y^2 = t_x c_y^2 = t_x^2 = t_$  $f\left(u_{r}v_{y}+u_{\theta}\theta_{y}\right)=\frac{4}{4}\frac{u_{r}v_{x}}{v_{x}}u_{r}v_{x}^{2}+u_{r}v_{x}^{2}+\frac{4}{6}\frac{u_{\theta}\theta_{x}}{v_{x}}+$ + 40 (-2400 cont) = ure + urly + 400/p, 2 (Pr(0-t)) = -2r(1-2rcus(0-t)+12)-(1-r2)(2r-2cos(0-t))/ ( )2 = [r2(4 cos(0-t) 4 - 2cos(0-t)) + ( (-2-2) + 2cos(0-t) ]/( )2 = (2(r2+1) cos(0-t) - 4r)/(1-2rcos+c2)2,

U0:-(-12)2181 (0-6)/( )2, U00 = -(-12)21205 (0-6)/( )2 \$+2(1-12)4125116-6)/( )3,

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P= 1-21 cus(7-11) +12
                   Rudin #6
               400 = - (1-12) 2105. (1 + 2(1-12) 412 512
                                                                                                                                                                                                                                                                               = -2((1-12) ( as -21 (us +12 (us + 4, 4 m) ) / ( ) 5
                                                                                                                                                                                                                                                                                                                                    u_{rr} = \frac{4r\cos{-4}}{()^2} - 2(2(r^2+1)\cos{-4r})(-2crs+2c)
               2 -21 (hr2) { # (1+12) cus -21 -21 5m2 }/()3,
               \frac{4\pi\cos^{2}+4}{(1-\epsilon^{2})(1-\epsilon^{
               4(+1) 12r

46(+1) 2r

4(+3,3+12r

(+3,3+12r

(-2-6,2) -6,2 - 4((2+1)) cos² = (+3,3+4((11))<sup>2</sup>) .cos -4-6,2 + (-3-5,2) as
               4(cos-4+2(r+1/2)cos-4=(6+1/2)cos-8, 0=? (61+3/2)cos-8).(1-2/cos+1/3)-2(1/2)

4(cos-4+2(r+1/2)cos+6+1/2)

4+1/2,2

4+1/2,2

4+1/2,2

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(
               + 4243+ 2243 + 244 444) , (n2+2)2. ] = AMR (n2+2) (n2+2) (n2+2) - 2 ((unx+v4x)2 + (uny+v4y)2)
               = -u^2ux² +u²(vx²+vy²) -u^2uy² +v²(ux²+uy²) -v²vx² -v²vy² - 4(uvuxvx -4uv(uxxx+uyvy)
           = to ux + u2 (u3 +ux -ux) -u2 u3 + v2 (u2+u34-u3-u2-u2) - fux (u-uxuy+uyux) = 0. An :=
           ΩΛ (utiv 2 C: lan « v < 2π(nti) }, for An -> C, for which to et z H (An), for z H (eAn),
        log|f|= De for #5

Yolff to (ff) = V(u(t) + v2(x)), 20 = Y(ff)(2uux + 2vvx + 1, 2uuy + 12vvy),

4 00 = Y(ff))(2uux + 2vvx + 12uuy + 12vvy) + 42Y(ff)(ux + 4uux + vx + vx + vx + 1)(uf + 4uuy + vxy + v
                - it'(ff)(zuny +zvvy)(zunx +zvvx + i zuny +izvvy) - izt'(ff) (uynx + unxy + vyvx + vvxy +iny + i unyy
                   + ivg+ ivvy) = 7"(ff) $2(unx +vvx#4uny + ivvy) {2(unx +vvx - inny - ivvy) + 24'(ff) {ux +unxx
                fvxtvvxx + uy + uugy +vy +vvyy + i (uxuy +uuxy +vxwy + vvxy - uxuy -uxy -vyvx -vvxy) } =
4 4 (ff) | uux +vvx +i (uuy +vvy)|2 + 24 (ff) (ux+uuxx + vg +vvxx + vg +vvxx + vg +vvyy), 240/18)
      = \(\frac{1}{2}\pi'(\frac{1}{1}\frac{1}{2}\pi'(\frac{1}{2}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}{1}\pi')\frac{1}{2}\pi'(\frac{1}\pi')\frac{1}{2}\pi'(\frac{1}\pi')\frac{1}{2}\pi'(\frac{1}\pi')\frac{1}{2}\pi''\frac{1}{2}\pi''\frac{1}{2}\pi''\frac{1}{2}\pi''\frac{1}{2}\pi''\frac{1}{2}\pi''\frac{1}{2}\pi''\frac{1}{2}\pi''\frac{1}{2}\pi''\frac{1}{2}\pi''\frac{1}{2}\pi''\frac{1}{2}\pi''\frac{1}{2}\pi''\frac{1}{2}\pi''\frac{1}{2}\pi''\frac{1}{2}\pi''\frac{1}{2}\pi''\frac{1}{2}\pi''\frac{1}{2}\pi''\frac{1}{2}\pi''\frac{1}{2}\pi''\frac{1}{2}\pi''\frac{1}
       = 2f.y + f2g, 20 401812 = 24, (1815) 21615 + 4, (1815) 291815 = 4, (1815) 91815 21815 + 4, (1815) 921815
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Rudin #7 J) [A] = Bad (unx + vvx + iuny + i vvy) = i (ux + unx + vx + vxx + i(uxuy + unxy + vxvy + vvxy) - i (ug 4x + unxy + vx y + vxy) + ug funyy + vg + vyy) = 2 (ux + vx + unxy + vy + unyy + vg + vyy)  $= |y_x + v_x|^2 = |y_x + iv_x|^2 = |f_x|^2$ ,  $|f_x|^2 = |f_x|^2 = |f_x|^2 = |f_x|^2 = |f_x|^2 = |f_x|^2$ DD 401413 = N., (18 12) 9/315 2 1815 + A. (1815) 16, 15 = (A. (1415) 2/415 0 1816/1815 + A. (1815) ) 12, 15 |f|2=? \frac{1\frac{1}{2}}{\left(\frac{1}{2})} = \frac{1\frac{1}{2}}{\frac{1}{2}} = \frac{1\frac{1}{2}}{2} = \frac{1}{2} \frac{1}{2} \frac{1}{2} = \frac{1}{2} \frac{1}{2} \frac{1}{2} = \frac{1}{2} \ et | | 1 | 1 | 2 | 1 | 1 - 2 | uux + vvx - ivvy - iuuy | 2 = | fi | -2 | uux - vuy - ivux 4 iuuy | 2, (f' [-2 | 2 | F | d | F | | 2 = 4 (| F | / 1 / 1 ) 2 | d | F | | 2 = 1 | d | F | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | f | | 2 = 1 | 4 | | 2 = 1 | 4 | | 2 = 1 | 4 | | 2 = 1 | 4 | | 2 = 1 | 4 | | 2 = 1 | 4 | | 2 = 1 | 4 | | 2 = 1 | 4 | | 2 = 1 | 4 | | 2 = 1 | 4 | | 2 = 1 | 4 | | 2 = 1 | 4 | | 2 = 1 | 4 | | 2 = 1 | 4 | | 2 = 1 | 4 | | 2 = 1 | 4 | | 2 = 1 | 4 | | 2 = 1 | 4 | | 2 = 1 | 4 | 4 | | 2 = 1 | 4 | | 4 | | 2 = 1 | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 |  $2 u v u_{x} u y + v^{2} u_{x}^{2} + u^{2} u_{y}^{2} + 2 u v u_{x} u y |^{2} = |f'|^{-2} |u_{x}^{2}|f|^{2} + |u_{y}^{2}|f|^{2} |= |f|^{2}, \quad \frac{1}{4} \Delta (|f|^{2}) = 4 \partial \overline{\partial} (|f|^{2})^{\frac{\alpha}{2}}$   $= |f'|^{2} \left( \frac{\alpha}{2} |f|^{2} \frac{(\alpha^{2} - 1)}{2} + |f|^{2} \frac{\alpha}{2} \frac{(\alpha^{2} - 1)}{2} \right) = |f'|^{2} \frac{\alpha^{2}}{2} \frac{(\alpha^{2} - 1)}{2} + |f|^{2} \frac{\alpha^{2}}{2} \frac{(\alpha^{2} - 1)}{2}$  $= g''(h) \frac{1}{h^2 + h_3^2} + g'(h) \triangle h, \qquad (g'(h) h_x) \times f'(g'(h) h_y) = (h) \frac{1}{h^2 + h_3^2} + (h)$  $u_{x}^{2} + u_{y}^{2} - u_{y}^{2} - u_{x}^{2} = 0$ ,  $\Delta(g \circ f) = (g_{x}^{*}(f) / 2x + g_{x}^{*}(f) / 2x)_{x} + (g_{x}^{*}(f) / 2y + g_{x}^{*}(f) / 2y)_{y} = 0$ (gnu (f) = + gav (f) = x + gn (f) uxx + (gvu (f) = ux + gv (f) = vx) vx + gv (f) = vx +(guulf)uy + gnv (+)vy)uy + gulf)uyy + (gvu (+)uy + gvu(+)vy)vy + gv(+)vyy = quult) ( ux +uy ) + quv(f) (zuxvx +zuyvy) + qvv(f) (vx +vy2) + qvlf) (uxx +uyy) + 9~11) ( vxx + vyy) = galderenta ((Ag) of) (ux + uy) + 2gnv (f) (-ux uy + uyvx) = ((2g) of) (f'/2 #7 Tr2 u(0) = | \ p(0,r) dr dy = | o o u(p, 0) p dp d0, inru(0) =  $\int_{0}^{2\pi} u(r,\theta) r d\theta, \quad u(0) = \frac{1}{1710} \int_{0}^{2\pi} u(r,\theta) d\theta \qquad \int_{0}^{2\pi} \frac{1}{1+i\epsilon} = \int_{0}^{2\pi} \frac{2i\epsilon}{t^{2}+\epsilon^{2}} = \frac{-2i}{\epsilon} \int_{0}^{2\pi} \frac{dt}{1+(\xi\epsilon)^{2}}$  $=-2i\frac{t_{i}}{t_{i}}\left[\frac{t_{i}}{t_{i}}\right]^{\frac{1}{2}}, \qquad \frac{d(t)}{t_{i}}\left[\frac{2i\epsilon}{t_{i}}\right]^{\frac{1}{2}} = \frac{2i}{\epsilon}\left[\frac{b}{a}\frac{d(t)}{(t_{i}-x)^{2}+\epsilon^{2}}\right]^{\frac{1}{2}} = \frac{2i}{\epsilon}\left[\frac{b}{a}\frac{d(t)}{(t_{i}-x)^{2}+\epsilon^{2}}\right]^{\frac{1}{2}}$ 

 $\leq \frac{2}{\epsilon} \|\theta\|_{\infty} \int_{a}^{b} \frac{dt}{1+\left(\frac{t-x}{a}\right)^{2}} = \frac{2}{\epsilon} \|\theta\|_{\infty} \left[\frac{t-x}{a}\right]_{a}^{b} = \frac{2}{\epsilon} \|\theta\|_{\infty} \left[\frac{t-x}{a$ 

 $\begin{aligned} |v+w| &= 2 |\cos \frac{8vv}{2}| = 2 \sqrt{\frac{1}{2}} |\cos \frac{8v_w}{4} + 1| = \sqrt{2 \cos \frac{8v_w}{4}} + 1| = \sqrt{2 \cos$ 

 $8050 = \frac{1}{5} \binom{n}{5} 5^{n-5} (-1)^{5} = \frac{4}{5} 4^{n} (-1)^{n} = 4^{n} + 1, \quad \alpha = \frac{1}{5} (4^{n} + 1) \times \frac{3}{5} \times \frac{2}{5} \times \frac{4}{5} \times \frac{4}{5} \times \frac{2}{5} \times \frac{4}{5} \times \frac{4}{5}$ (5) Let \( \alpha = \frac{1}{5} (4.16 + 1), \( \alpha \in N), \( 4.5 = -1 \), \( \alpha = \frac{1}{5} \), \( \alph  $=1-(-4)^{2k+1}=(-5)\sum_{j=0}^{2k}(-4)^{j}, \quad \alpha=\sum_{j=0}^{2k}(-4)^{j}, \quad k \geq 2, \quad 205+\sum_{j=0}^{2k}(-4)^{j}$ = 2054 - 1024 [-4) = 205+1024. \( \( \left( -1) \), \( \tau \), \( 3277 \), \( \tau \) \( \frac{16}{5} \) \( \left( \frac{1}{5} \) \( \left( \frac{1}{5} \) \), \( \frac{1}{5} \) \( \left( \frac{1}{5} \) \)  $\frac{1}{5}(4\cdot16^{2+3}+1), \frac{12}{5}(4^{26})(-3)+4^{22} \left| \frac{11(x-r_{5})^{2}+11(x-r_{5})^{2}}{11(x-r_{5})^{2}} -2P(x)+Q_{2}(x) \right|$ -4P(x) = Q1(x)-Q2(x)=-(Q1(x))2-Q2(x) = 2P(x)+Q1(x), =-3/2(0)+16/2, 1+3/242)+1 T (x-r;) + T(x-r;)= 4 (22(x) T(x-rj) - T(x-rj) = 2itm(r,-r2)+2ilm(r,r2)== = Q,(x)  $\overline{\prod} (x-r_j) - \overline{\prod} (x-\overline{r}_j)$ T(x-r;) + T(x-r;)2 AA = 2P(x) +c2 = TT (x-r,)-T(x-r,) (x+r,) (x-r,) (x-r,) = 27(7)+d2 (x2-2Rer, x+1r,12) (x2-2 Rer2 x +1r212) x4 -2 (Rer, + Rer,) x3 + (11,12+11,12+4 Rer, + Rer, + Rer,) x2+8-2(11,1Rer, + 11,1Rer,) x+11,12)2 (ax1+bx+c)2+(dx1+ex+f)2 = (12+d2)x4+(52+e2)x2+12+f2+2(15+d2)x3+2(16+df)x2+2(16+ef)x M = (12+d2)x4 +2(a5+de)x3 + (52+e2+2(ac+df1)x2+2(5c+ef)x+c2+f2 (P=1, 6=1) (A+B), It2B C+BC=1819 BC=B, (=1, B'= 0 => B=0 AL+BL=I ME BETCE BED UNBEC, C + A? BC = A?-1 B6-1 C = B8-1, 2 C= 1, 448 B=0 B3-1 C = B3-1 A?-1  $\begin{pmatrix} 1 & 0 \\ 0 & 0 \end{pmatrix} \begin{pmatrix} 1 & 0 \\ 0 & 0 \end{pmatrix} > \begin{pmatrix} 1 & 0 \\ 0 & 0 \end{pmatrix}$ B 5 CA = B 5-1 B ( 1 0 ) ( 1 0 ) = 1 0 1 0 - 1 0 - 1 176 - BP6 = (A-B) (AP8-1 + AP8-2 13 + - + \$ 4B76-2 + BP6-1) = (1-13)(A"+A"B+ ... +A"3-1-(g-1) & 3-1) = (A-B)(A-1+A-1B+\_++A-1B9-1) APB - (-B)PB = (A+B) (AT - AZB + ... + (-i)BT A-BBT)