/			
IN THE	1.1		امنے
-	1	2,	2

سزال 1 . الذ) _ عفا از برته أو الت بس شا دار ارتام ابن برته يا له ، بي عن ات .

n 0.39

n = 0.00381 ± 0.00001 - n = 0.0038

 $a = -0.2113 \pm 0.005 - a = -0.21$

 $\delta_{\alpha} = \frac{\Delta \alpha}{\alpha} = 0.1$ $\Delta \alpha = 1.35 \times 10^{-5}$ $\Delta \simeq 1 \times 10^{-4}$ (ii) -2

 $\delta \alpha = \frac{\Delta \alpha}{\alpha} = \frac{2}{100} \rightarrow \Delta \alpha = 11.856 \rightarrow \alpha \approx 6 \times 10^{2}$

7 = a+b+c __ 32 = sa+sb+sc w = 3 = 3

غيار لذ لذ المرا هو مد را د نفرى ليم: مع ما م المعام ، الله المعام ، الله المعام ، الله المعام ، الله المعام ،

 $Z = \lambda_1 + \alpha_2 - \alpha_3 \longrightarrow \Delta Z = \Delta \alpha_1 + \Delta \alpha_2 + \Delta \alpha_3$ (-

 $\rightarrow \Delta Z = 0.59 \rightarrow Z = 19.5 \pm 0.6$

Z= ab - AZ= aAb+bAa = 8.6 x 0.005+3.49 x 0.05 -4 112

- AZ = 0.2175 _, Z = 30.0+ 0.2

 $z = \frac{a}{b}$ $\delta_z = \delta_a + \delta_b$ $\Delta_z = \frac{a}{b} \left(\frac{\delta a}{a} + \frac{\delta b}{b} \right)$ $5 \int y$

- AZ= 2.11 ×10-4 Z= 1.1296 ± 2.11×10

 $Z = \pi r^2$ $\Delta Z = 2\pi r \Delta r$ $\delta_Z = \frac{2\pi r \Delta r}{\pi r^2} = \frac{2\Delta r}{r}$

DZ = 37.7 - 82 = 0.083, Z = 4.5 x10 + 0.4 x10

P(K=0) = - 1.5598, P(K=1) = -2.1178

سزال 4 ۔

P(K=2)= -2.7609, P(K=3)= -3.4984

P(k=4) = -4.3400, P(k=5) = -5.2958, P(k=6) = -6.3761

P(k=7)=7.5917, P(k=8)=8.9536, P(k=9)=-10.4729

P(K=10) = -12. 1615, P(K=11)= -14. 0310, P(K=12)=-16.0938

P(K=13)=-18.3621, P(K=14)=-20.8438, P(K=15)=-23.5666

f(n) = f(0), $\frac{n}{2}$ f'(0) $\frac{1}{2!}$ $\frac{1}{2!}$ $\frac{1}{2!}$

عِمَا إِنْسِيبِ وَمَا عِنَامَة مِنْ اللِّينَ أَلْمِ لَا بِ إِزَارَاكُمُ اللَّهِ اللَّهُ اللَّالِي اللَّهُ اللَّا اللَّهُ اللَّلْمُلَّالِي اللَّالَّالِي اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّل

 $\frac{f(0)}{i!} n' | \leq \varepsilon$

f(0) = 1, f(0) = 0, f(0) = -2, f(0) = 0, f'(0) = 12, f'(0) = 0

 $f^{(0)} = 1$, $f^{(0)} = 0$

$$f(n) = e^{n^2} = \sum_{k=0}^{\infty} \frac{(-n^2)^k}{k!}$$

إلى لا لطبكور، دارم.

ادلین کا آ لا به زا ا کا کا ایا کا ایا باید دا ا کا ایا باید دا ا کا ایا کا ایا کا ایا کا ایا کا ایا کا ایا کا

 $f(n) \sim \frac{13}{160} \left(-x^2\right)^{16}$ $|x| = \frac{13}{160} \left(-x^2\right)^{16}$

 $f(\kappa=0) = 0.18452$, $f(\kappa=1) = 0.17977$, $f(\kappa=2) = 0.17510$

f(k=3) = 0.17052, f(k=4) = 0.16603, f(k=5) = 0.16162

 $f(\kappa=6)=0.15730$, $f(\kappa=7)=0.15306$, $f(\kappa=8)=0.14891$

f(K=9)= 0.14484, f(K=10)= 0.14086, f(K=11)= 0.13696

f(K=12) = 0.1313, f(K=13) = 0.12939, f(K=14) = 0.12573

f(K=15)= 0.12215.

سزال و مرا هردد بعاميل راب در ادر و امر را در دران علما ك كترد عادات $\frac{8in \ \alpha}{1} = \frac{00}{100} \frac{(-1)^{1/2}}{2^{1/2}} \frac{2^{1/2}}{2^{1/2}} \frac{8in (n)}{n} = \frac{00}{100} \frac{(-1)^{1/2}}{2^{1/2}} \frac{2^{1/2}}{n} \frac{2^{1/2}}{100} \frac{2^{$ for K)3: (-1) 2 max (E = 5 m ~ 2 K (2K+1)) $\frac{2n+1}{8nh n} = \frac{2n+1}{n}, \quad \frac{2n+1}{(2n+1)!}$ $\frac{3}{5 \ln h} \approx \frac{3}{2^{n+1}} \frac{n^{2n+1}}{(2n+1)!}$ Sinh a = 2n+1 for n)3: | a max | (E $\frac{3}{8nh} = \frac{3}{2n+1}$ $e^{\frac{1}{n}} = \frac{1}{n!} \frac{n}{n!} \frac{n}{n!} \frac{n}{n!} = \frac{1}{n!} \frac{n}{n!} \frac{n}{n!} = \frac{1}{n!} \frac{n}{n!} = \frac{1$ e'm ~ 7 ~ n1

 $y = \frac{1}{n^3} \qquad x^3 = \frac{1}{y} \qquad f(y) = \frac{1}{y} - x^3 = 0.$ $y'(y) = -\frac{1}{y^2} \qquad y''' = \frac{1}{y^2} - x^3 = \frac{1}{y^2} - \frac{1}{y$

$$y = \frac{n}{1+n} \qquad y + y = \frac{y}{n} \qquad y = \frac{y}{1-y} \qquad (1-y) \qquad n = \frac{y}{1-y} \qquad (1-y)^{2}$$

$$y = \frac{y}{1-y} \qquad y = \frac{y}{(1-y)^{2}} \qquad (1-y)^{2}$$

$$y = \frac{y}{1-y} \qquad (1-y)^{2} \qquad (1-y)^{2}$$

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$$y = \frac{\sqrt{n^2+1}}{n} = \frac{1}{n} \cdot \sqrt{n^2+1} = 2 \times t \longrightarrow 2 = \frac{1}{n}, \ t = \sqrt{n^2+1}$$

$$a = \frac{1}{z}$$
 $f(z) = \frac{1}{z} - 2$ $f(z) = -\frac{1}{z^2}$

$$- Z_{n+1} = Z_n + Z_n^2 \left(\frac{1}{Z_n} - x_n \right) = 2Z_n - Z_n^2 x_n = Z_{n+1}$$

$$t = \sqrt{2^2 + 1} \longrightarrow \left[t_{n+1} = \frac{1}{2} \left(t_n + \frac{\alpha^2 + 1}{t_n} \right) \right]$$

$$y = (2n+1)\frac{1}{\sqrt{n}} \rightarrow y = (2n+1)^{\frac{1}{2}} = \frac{1}{\sqrt{n}}$$

$$- n = \frac{1}{z^2} - f(z) = n - \frac{1}{2^2} - f(z) = \frac{2}{z^3}$$

$$\frac{1}{2} \frac{2n}{2n} = \frac{2n - \frac{1}{2}(n^2 - 2n)}{2n} = \frac{2n - \frac{1}{2}(n^2 - 2n)}{2n}$$

$$y = \frac{1}{\sqrt{n(n+1)}}$$
 $y = \frac{3}{2}y_n - \frac{1}{2}y_n^3(n^2+n)$

$$y = \frac{1}{\sqrt[3]{n}} \qquad n = \frac{1}{\sqrt[3]{3}} \qquad f(y) = \frac{1}{\sqrt[3]{3}} - n \qquad (i)$$

$$-\frac{1}{y} = \frac{3}{yu} - \frac{y_{n+1}}{y_n} = \frac{y_n}{3/y_n}$$

$$y = \sqrt{n}$$
 $y'' = x$ $f(y) = y'' - x$ $f(y) = 4y^3$ (

$$\frac{y_{n+1} = y_n - \frac{y_n^2 - x}{4y_n^3}}{y_n^3} = \frac{y_n - \frac{y_n}{4} + \frac{x}{4y_n^3}}{4y_n^3}$$

$$\frac{\partial U}{\partial n_1} = \frac{1}{n_1 + n_2^2}, \qquad \frac{\partial U}{\partial n_2} = \frac{2n_2}{n_1 + n_2^2}.$$

$$\Delta \mathcal{U} = \frac{\Delta \mathcal{U}_1 + 2 \mathcal{U}_2 \Delta \mathcal{U}_2}{\Delta \mathcal{U}_1 + 2 \mathcal{U}_2^2}$$

$$Du = \left| \frac{\partial u}{\partial n_1} \right| \Delta n_1 + \left| \frac{\partial u}{\partial n_2} \right| \Delta n_2 + \left| \frac{\partial u}{\partial n_3} \right| \Delta n_3$$
 (-

$$\frac{\partial u}{\partial n_1} = \frac{1}{n_3}, \quad \frac{\partial u}{\partial n_2} = \frac{2n_2}{n_3}, \quad \frac{\partial u}{\partial n_3} = \frac{n_1 + n_2}{n_3^2}$$

$$\frac{3u = \frac{3n_1}{n_3} + \frac{2n_2}{n_3} + \frac{3n_2}{n_3^2} + \frac{(n_1 + n_2^2)}{n_3^2} + \frac{3n_3}{n_3^2}$$

1999 Du= n, Dn2+ n2 Dn, + n, Dn3 + n3 Dn, + n2 Dn3+ n3 Dn2 (2.