\$20

$$\sqrt{2^{n}}z^{n} = \sum_{n=1}^{\infty} \frac{2^{n}(z^{n})^{n}}{n^{2}} + \frac{1}{2}$$

 $\frac{1}{2} = \lim_{n \to \infty} \sqrt{\frac{2^{n}}{n^{2}}} = 2 = \frac{1}{2} \frac{1}{2} - \exp(2 - \exp(2 - \frac{1}{2} - \exp(2 - \frac{1}{2} - \exp(2 -$

 $\sum_{n=1}^{\infty} \frac{n! \, \mathcal{E}^n}{(1+i)(1+ii)...(1+ni)} \sqrt{(1+i)...(1+ni)} \sqrt{(1+i)...(1+ni)}} \sqrt{(1+i)...(1+i)...(1+i)...(1+i)} \sqrt{(1+i)...(1+i)...(1+i)} \sqrt{(1+i)...(1+i)...(1+i)} \sqrt{(1+i)...(1+i)...(1+i)} \sqrt{(1+i)...(1+i)...(1+i)} \sqrt{(1+i)...(1+i)...(1+i)} \sqrt{(1+i)...(1+i)...(1+i)} \sqrt{(1+i)...(1+i)...(1+i)...(1+i)...(1+i)...(1+i)...(1+i)...(1+i)...(1+i)...(1+i)...(1+i)...(1+i)...(1+i)...(1+i)...(1+i)$

$$\frac{1}{n} = \lim_{n \to \infty} \frac{(n+1)!(1+i)!}{(1+i)!(1+i)!} = \lim_{n \to \infty} \frac{(n+1)!}{(1+i)!} = \lim_{n \to \infty} \frac{$$

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$$||Q - Q| = ||Q^{h} - 1||^{2} = ||Q - Q|| = ||Q - Q||$$

$$\sum_{n=1}^{\infty} P = 1 \implies \text{loa} \left(-1', 1 \right) - \text{CX-Cl}.$$

$$\sum_{n=1}^{\infty} \left(\sqrt{3} - 1 \right) - \left(-1' \right)^{n} \left(\sqrt{3} - 1 \right) \implies \text{no npuyn.}$$

$$\sum_{n=1}^{\infty} \left(\sqrt{3} - 1 \right) \approx \sum_{n=1}^{\infty} \frac{1}{n} - \text{pacx-cl}. \implies \sum_{n=1}^{\infty} \left(\sqrt{3} - 1 \right)^{n} - \text{ex-cl.}$$

$$\sum_{n=1}^{\infty} \left(\sqrt{3} - 1 \right) \left(-1 \right)^{n} - \text{ex-cl.} \quad \text{yerobuo.}$$

$$\sum_{n=1}^{\infty} \left(\sqrt{3} - 1 \right) \left(-1 \right)^{n} - \text{ex-cl.} \quad \text{yerobuo.}$$

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 $\frac{5-3x}{2x^{2}+5x-3} = \frac{5-3x}{(2x-1)(x+3)} = \frac{1}{(2x-1)} + \frac{1}{(x+3)} = \frac{1}{(x+3)} = \frac{1}{(x+3)} + \frac{1}{(x+3)} = \frac{1}{(x+3)} + \frac{1}{(x+3)} = \frac{1}{(x+3)} + \frac{1}{(x+3)} = \frac{1}{(x+3$

$$= \frac{1}{(2x+1)} - \frac{2}{(x+3)} = -\frac{1}{(2x+1)} + \frac{2}{3} \left(\frac{1}{11} \frac{x}{x}\right) = \\
= -\left(\frac{x^2}{2}(2x)^{1/2} + \frac{2}{3} \frac{x^2}{2}(1)^{1/2} \frac{x}{3}^{1/2}\right) \times^{1/2} = \\
= \frac{x^2}{2} \left(-2^{1/2} + \frac{2}{3}(1)^{1/2} \frac{x}{3}^{1/2}\right) \times^{1/2} = \\
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= \frac{x^2}{2} \left(-2^{1/2} + \frac{2}{3}(1)^{1/2} \frac{x}{3}\right) \times^{1/2} = \\
= \frac{x^$$

$$(x+1) \text{ arcto} \frac{x-1}{3+x} \qquad x_0 = -1 \qquad x+1 = t$$

$$= \frac{t-2}{t+2}$$

$$(x+1) \text{ arcto} \frac{t-2}{t+2}$$

$$(x+1) \text{ arcto} \frac{t-2}{t+2}$$

$$(x+1) \text{ arcto} \frac{t-2}{t+2}$$

$$(x+1) = \frac{t-2}{t+2} = \frac{t$$

$$\frac{1}{\sqrt{2}} = 3x^2 e^{\frac{1}{2}} + e^{\frac{1}{2}} = 3x^3 e^{x^3} + e^{x^3} = (3x^3 - 1)e^{x^3}$$

$$\sqrt{80}$$

$$\int_{0}^{1} (x) = \int_{0}^{1/2} (x) dx \quad \forall m \quad f^{(m)}(x) \quad \text{equiverbujer.}$$

$$\int_{0}^{1} (x) = e^{\frac{1}{2}x} \cdot \frac{2}{x^3}$$

$$\int_{0}^{2} (x) - e^$$

Note X = 0 Doramen no cheg-you, to f'''(0) = 0. Sogai, $f'(0) = \lim_{x \to \infty} \frac{f(x) - 0}{x} = \lim_{x \to \infty} \frac{e^{-\frac{1}{x^2}}}{x} = \lim_{x \to \infty} \frac{e^{\frac{1}{x}}}{x} = 0$ Mpexog', $f^{(k)}/p$) = $\lim_{x\to 0} f^{(k-1)}(x) - 0$ = $\lim_{x\to 0} e^{-\frac{1}{2}x} \cdot \frac{t}{x^{(k-1)}}$. =) \(\big(\mu \) = 0 \\ \tag{\tau} \. $\sum_{n=0}^{\infty} f^{(n)}(x) = 0 + f(x) \text{ my } x \neq 0.$ (1) \lim (2 \frac{1}{\text{k+1}}) = \lim (2) \frac{1}{\text{k+1}} = \lim (2) \frac{1}{\text{k+ $=\lim_{y\to\infty}\frac{(k+1)y^{k-1}}{2ey^2}=\dots=\lim_{y\to\infty}\frac{c\cdot y^2}{e^{y^2}}=0$