20 - review of power series

$$|| \underbrace{\frac{\partial}{\partial x}}_{n=1} \frac{(2x+1)^n}{n^2} = \sum_{n=1}^{\infty} \frac{2^n (x - \frac{1}{2})^n}{n^2} \Rightarrow a_n = \frac{2^n}{n^2} \times_0 = -\frac{1}{2}$$

$$|| \underbrace{\lim_{n \to \infty} \left| \frac{(2x+1)^{n+1}}{n^2} \right|^2}_{(n+1)^2} = \lim_{n \to \infty} \left| \frac{(2x+1) \cdot n^2}{(n+1)^2} \right| = || 2x+1| \le 1$$

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$$\underbrace{\sum_{n=1}^{c} \frac{(-1)^{n} \cdot n}{4^{n}} (x+3)^{n}}_{n \to \infty} \underbrace{(x+3)^{n+1} \cdot (x+3)^{n}}_{n \to \infty} = \underbrace{|_{(M)}_{n \to \infty}}_{n \to \infty} \underbrace{|_{(-1).(n+1)}(x+3)}_{n \to \infty} \angle 1$$

$$x=-7$$
 $\frac{(-1)^{n} \cdot n \cdot (-1)^{n}}{4^{n}} \Rightarrow 1$ $\Rightarrow 1$

$$e^{\times} = \sum_{k=0}^{\infty} \frac{x^{k}}{k!}$$

$$\sin x = \sum_{k=0}^{\infty} (-1)^{k} \frac{x^{k+1}}{(2k+1)!}$$

$$\cos x = \sum_{k=0}^{\infty} (-1)^k \frac{2^k}{(2k)!}$$

$$\frac{1-x}{7} = \sum_{\alpha}^{p=0} x_{\beta}$$

$$\ln(1+x) = \sum_{k=1}^{\infty} (-1)^{k+1} \cdot \frac{x^{k}}{k}$$