## Lec. 20-a-derivatives of trig func.

10:51 AM

Thursday, July 25, 2024

Chaim! 
$$\forall a < b \leq sin(b)$$
, (os(a) and  $e \neq c (tax)$ 

Keys: Product Theorem.

Thy thos

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$$A C) \lim_{h\to 0} \frac{e^{h-1}}{h} = 1$$

$$\int_{n}^{\infty} (x) = \frac{\sum_{m=0}^{n} (-1)^{m} x^{2m+1}}{(2m+1)} \qquad 0 \leq |x| \leq |x|$$

$$\frac{|\chi|^{2m+3}}{(2m+3)!} = \frac{|\chi|^{2m+1}}{(2m+1)!} = \frac{1}{2m+1}$$

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$$|| b_{m+1}|$$

$$| b_m|$$

$$| Sh(h) - P_n(h)|$$

$$| (2n+1)!$$

$$\frac{|S(h)|}{h} - \frac{|h|^{2h}}{h} \longrightarrow 0$$

$$\frac{1}{\sqrt{1+2}} \text{ as } \lambda \to 0$$

$$\frac{b+}{n}\frac{f_n(f_n)}{n}=|+o(f_n)-+|$$

$$\frac{|S(\lambda)|}{|\lambda|} - \frac{|S(\lambda)|}{|\lambda|} - \frac{|S(\lambda)|}{|\lambda|} + \frac{|S(\lambda)|}{|\lambda|} + \frac{|S(\lambda)|}{|\lambda|} - \frac{|S(\lambda)|}{|\lambda|} + \frac{|S$$

$$AIEQ \frac{17n^{2n}}{(2n+1)!} o(h^2)$$