

Ex 1) Find the function whose power series is the Taylor series about $x = \frac{\pi}{2}$ given by:

$$\sum_{n=0}^{\infty} \frac{(-1)^n}{(2n)!} \left(x - \frac{\pi}{2}\right)^{2n}$$

$$= 1 - \frac{1}{2!} \left(x - \frac{\pi}{2}\right)^2 + \frac{1}{4!} \left(x - \frac{\pi}{2}\right)^4 - \dots$$

$$\begin{array}{ll} f(x) = \cos x? & f\left(\frac{\pi}{2}\right) = 1? \text{ NO!} \\ f(x) = \sin x? & f\left(\frac{\pi}{2}\right) = 1 \checkmark \\ f'(x) = \cos x & f'\left(\frac{\pi}{2}\right) = 0 \\ f''(x) = -\sin x & f''\left(\frac{\pi}{2}\right) = -1 \end{array}$$

Taylor Series about $x = a$

$$\sum_{n=0}^{\infty} \frac{f^{(n)}(a)}{n!} (x - a)^n$$

$$\frac{-1}{2!} \left(x - \frac{\pi}{2}\right)^2$$

$$\boxed{f(x) = \sin x}$$

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