Source:

1 | find taylor series

$$1.1 \mid y = \cos(x)$$

$$P_n(x) = f(0) + \frac{d}{dx}f(0)x + \frac{\frac{d^2}{d^2x}f(0)}{2!}x^2 + \frac{\frac{d^3}{d^3x}f(0)}{3!}x^3 + \cdots$$
$$= \cos(0) - \sin(0)x + \frac{-\cos(0)}{2!}x^2 + \frac{\sin(0)}{3!}x^3 + \cdots$$

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