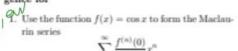
Block:



the function
$$f(x) = \cos x$$
 to form the Maciauseries
$$\sum_{n=0}^{\infty} \frac{f^{(n)}(0)}{n!} x^{n}$$

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

(a) Find the derivatives
$$f'(x) = -S \cdot n \cdot x$$

$$f''(x) = -1 \cdot s \cdot x$$

(c) Assemble the series
$$(a5 \times = f(b) + f(b) \times 1 + f(b) \times 2 + f(b) \times 3 + f(4) \times 4 + f(5) \times 3 + f(5$$

(d) Use the ratio test to conclude that the series