

Function derivative example

Calculate the derivative of the following function:

$$f(x) = \sqrt{x} + \ln x$$

$$f(x) = x^{\frac{1}{2}} + \ln x$$

$$f'(x) = \frac{1}{2} \cdot x^{-\frac{1}{2}} + \frac{1}{x}$$

$$f'(x) = \frac{1}{2 \cdot \sqrt{x}} + \frac{1}{x}$$