

Homework 3

1. Find the derivative by the limit process.

$$f(x) = \sqrt{x + 4}$$

2. Find the derivative of the function.

(a)

$$f(x) = x^2 - \frac{4}{x^3}$$

(b)

$$f(x) = \frac{1}{x} - 12\sec x$$

(c)

$$f(x) = -2\sqrt{3x^2 + 7}$$