

1004 HW-C

1. Find the vertical asymptotes

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

2. Find the derivative by the limit process

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

3. Find the derivative

(a)

$$f(x) = \frac{3x^2 + 4x - 8}{\sqrt{x^3}}$$

(b)

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