

1004 HW-B

1. Find the vertical asymptotes

$$f(x) = \frac{x^2 - 5x + 25}{x^3 + 125}$$

2. Find the derivative by the limit process

$$f(x) = x^3 - 12x$$

3. Find the derivative

(a)

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

(b)

$$f(x) = \frac{\sec x}{x}$$