Calculus I Ver 1

Quiz 6Nov. 8, 2006

1. (6 pts) Compute the derivative function f'(x) by definition $(f'(x) = \lim_{h\to 0} \frac{f(x+h)-f(x)}{h})$.

$$f(x) = \sqrt{x+2}$$

2. (7 pts) Find the derivative of $f(x) = \frac{x^2}{\sqrt{x^2+1}}$.

3. (7 pts) Find the derivative of $f(x) = x^2 \sqrt{x^2 + 1}$.