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Math 120 Calculus I  
Quiz  
November 2011

Differentiate the following functions. Do not simplify your answers. Points for each problem are in square brackets.

1. [3]  $f(x) = \frac{\sin x}{x}$ .

2. [3]  $f(x) = (5x^8 - 3x^2)(7 - 4 \tan x + 10e^x)$ .

3. [4]  $f(x) = \cos(6x + 5) - \sqrt{x^3 + 4x^2 - 5x + 2}$ .