

Math 1081, Quiz 2

Name: \_\_\_\_\_

1. Using the definition of the derivative as a limit, find  $f'(x)$  if  $f(x) = \frac{2}{x-2}$ .

2. Find the derivative of

$$y = \frac{3x^2 - 2}{\sqrt{x}} + \frac{x}{5\sqrt[3]{x^2}}$$

(Hint: simplify  $y$  so that it involves only power functions, multiplication by constants, and addition/subtraction - then differentiate.)