

# Math 3113 - Multivariable Calculus

Quiz #12 - 2006.04.07

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

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Consider the function  $R = \sin(x + y) \cos(x - y)$ , with  $x(s, t) = \frac{s}{t}$ , and  $y(s, t) = st$ . Answer the following questions.

1. Compute  $\frac{\partial R}{\partial t}$

2. Compute  $\frac{\partial R}{\partial s}$