

Name \_\_\_\_\_

Mathematics 105D: Calculus I  
Fall Semester 2012  
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Quiz #16

Given the equation  $x = \sin(e^y)$ ,

Take the derivative of both sides of the equation [i. e. use Implicit Differentiation and the Chain Rule] to derive a formula for  $\frac{dy}{dx}$ . [It is OK if your answer is in terms of  $y$  only.]