

Quiz 7

Name: _____

Implicit Differentiation II

Math 408D:

Instructor: Athil George

Problem 1. Consider the ellipse equation.

$$\frac{x^2}{a} + \frac{y^2}{b} = c$$

Suppose (\bar{x}, \bar{y}) are points that satisfy this equation. Find a general formula for the equation of the tangent line at any point (\bar{x}, \bar{y}) on the ellipse. Your answer should be in terms of $a, b, c, \bar{x}, \bar{y}$.