

Quiz 10
Optimization

Math 408D:

Instructor: Athil George

Name: _____

Problem 1. You are given 3 data points.

$$P_1 = (3, 3)$$

$$P_2 = (2, 1)$$

$$P_3 = (1, 1)$$

Find a line in the form

$$y = ax + b$$

such that the square error is minimized. This problem is called method of least squares.