

Math 120 Quiz #5

Nov. 1, 2010

Problem 1

Problem 1.a

Find the line passing through the points

$$(4, 1), (7, 10)$$

Problem 1.b

Determine if the line $y = 3x - 11$ is perpendicular to the line $3x + y + 11 = 0$.

Problem 2

The demand function for a manufacturer's product is $p = 200 - 10q$, where p is the price and q is the amount demanded. Find the level of production q that maximizes the manufacturer's total revenue. Also determine what that maximum revenue is.