

Name: _____

Panther ID _____

Quiz 5 - Take home - Due date: August 8 MGF-1006 Summer 2005

To receive credit you MUST SHOW ALL YOUR WORK.

1. (10 pts) Suppose you invest a total of \$50,000 in two different stock market accounts. After one year, you made a profit of 10% on the first account, but you had a loss of 8% on the second account. Overall you still had a total profit of \$2300. How much you invested in each account?

2. (10 pts) A manufacturer has determined that at a price of 115 dollars consumers will purchase 10,000 portable CD players and that at a price of 90 dollars consumers will purchase 12,000 portable CD players. Find the formula for the linear function giving the number of CD players purchased by the consumers at a given price x .

Use this function to predict the number of portable CD players bought by consumers at a price of 80 dollars.