

2.2 - Quadratic Functions

Course: Math 116 - 16
Due: January 26, 2017

Name:

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- 56 The manager of a peach orchard is trying to decide when to arrange for picking the peaches. If they are picked now, the average yield per tree will be 100 lb, which can be sold for 80c per pound. Past experience shows that the yield per tree will increase about 5 lb per week, while the price will decrease about 4c per pound per week. Let x represent the number of weeks that the manager should wait.
- Find the income per pound in terms of x .
 - Find the number of pounds per tree in terms of x .
 - Find the total revenue from a tree in terms of x .
 - When should the peaches be picked in order to produce maximum revenue?
 - What is the maximum revenue? (Make sure you include the correct units in your answer.)