Algebra 2 Assignment 126 Tuesday October 27 2015 Hour Name

Show your Work and Box your Final Answers

1. A store can sell 300 bags of Halloween candy for $2.00 each. Each time the price drops by $0.20, per bag, the number of bags sold increases by 50 bags. Find the price at which the maximum revenue is obtained. Also find the maximum revenue.

2. A Girl Scout can sell 600 boxes of Girl Scout Cookies at $1.80 per box. With each increase of $0.30 in price, the number of boxes sold decreases by 20. Find the price at which the maximum revenue is obtained. Also find the maximum revenue.

3. A dealer sells 360 cars each month at $32,000 each. For each $400 price decrease, the number sold is increased by 30. Find the price at which the maximum revenue is obtained. Also find the maximum revenue.