Algebra 2CP Chapter 5 Mini-Test Study Guide

**Extra Practice problems:**

5.1 p 899: #15 & 18, Graph #18

5.2 p 900: #1-3 All

5.3 p 900: #5-8 All

6.1 p 902: #6, 15, 22

6.2 p 902: #15-17

**Other sections of the book:**

5.2 p 250: #30 Read the information above it to get the quadratic equation you will use.

**Word problems:**

1. A soft-drink vendor at a popular carnival analyzes his sales records, and finds that if he sells *x* cans of soda in one day, his profits (in dollars) is given by $P\left(x\right)=-.002x^{2}+5x-2200$.
2. What is his maximum profit per day?
3. How many cans must he sell for maximum profit?
4. Suppose the cost in dollars of producing *x* bbq sets is given by the polynomial $2x+500,000$

And the revenue generated from sales is given by the polynomial$ -0.00006x^{2}+30x$.

1. Find a polynomial expression for the profit from making and selling *x* bbq kits.
2. Evaluate the expression for $x=300,00$.