**Algebra 2 CP TEST REVIEW 8.4-8.6 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**SHOW ALL WORK AND ANSWERS ON SEPARATE PAPER.**

**NON-CALCULATOR PART**

**Find the value of x.**

**Expand each expression.**

**Condense each expression.**

**Evaluate each expression.**

**Solve each equation. Check for extraneous solutions.**

**Solve each equation.**

**CALCULATOR PART**

**Use the change of base formula to rewrite each expression. Then use a calculator to evaluate the expression. Round to three decimal places.**

**Solve each equation.**

**Use the formula to solve.**

1. A plank of wood is found at an ancient city in an archeological dig. If the original amount of carbon-14 was 600 grams and the amount present now is 570 grams, how old is the plank of wood?
2. A pair of antlers is found in the woods and contains 90% of its original amount of carbon-14. Estimate the age of the pair of antlers.