## **Powell High School**

Name \_\_\_\_\_

## Honors Algebra II

## Summer 2017 Assignment

**Directions:** Use pencil to complete all problems. Show all steps. This assignment will be due on the first day of class, and will be entered as a homework assignment.

Use the quadratic formula to solve problems 1 through 4.

1)  $4x^2 - 9x + 4 = 0$ 2)  $2x^2 + 11x - 13 = 0$ 3)  $3x^2 - 5x - 37 = -9$ 4)  $2x^2 - 6x = -4$ 

**Essay Prompt:** The Egyptians solved quadratic equations as far back as 1500 BC. Write two paragraphs to explain why and how the Egyptians solved quadratic equations. Also, state the name of the mathematician who is responsible for the modern form of the quadratic formula.



State the domain and range for each graph.











