**Name: Period: Job 37: Solving Quadratic w Quadratic Formula** .

**Part 1: Lesson 9-6 Textbook**

Page 393: 15, 19, 21, 23, 30, 31

**Part 2: Algebra Regents Questions –**

1. Which equation has the same solutions as ?
2. (3)
3. (4)

1. A student was given the equation to solve by completing the square. The first step that was written is shown below.

The next step in the student’s process was .

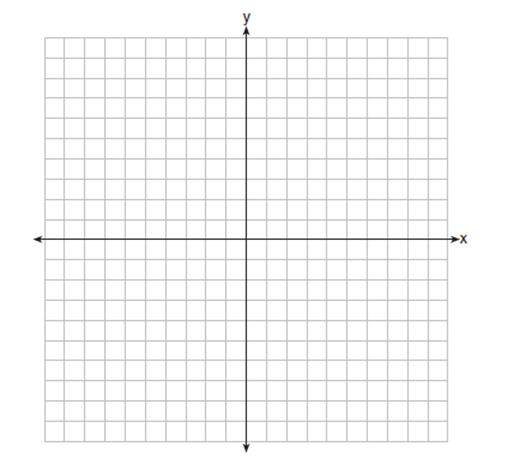
State the value of that creates the perfect square trinomial.

Explain how is determined.

1. What are the roots of the equation ?
2. (3)
3. (4)

1. Keith determines the zeros of the function to be and . What could be Keith’s function?
2. (3)
3. (4)

1. On the axes below, graph .



If , how is the graph of translated to the graph of ?

If , how is the graph of translated to the graph of ?

1. Determine and state whether the sequence displays exponential behavior. Explain how you arrived at your decision.
2. Solve for : . State if the solution is rational or irrational and why.
3. Given , determine the largest integer value of when /