Algebra 2 NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Quiz 5.4-5.5 DATE\_\_\_\_\_\_\_\_\_\_\_\_PER\_\_\_\_\_\_\_

Write the binomial squared as a trinomial

1. (x + 7)2 1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. (x – 6)2 2.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Write the trinomial as a binomial squared

1. u2 +16u + 64 3.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. a2 - 10a + 25 4.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Without graphing, what is the coordinate point 5.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

of the vertex of the parabola (x – 5)2 + 7?

6 and 7. Write the quadratic in vertex form then identify 6. Vertex form:\_\_\_\_\_\_\_\_\_\_\_

the vertex.

*(Refer to step 5 of the investigation)*  7. Vertex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. Solve the equation by completing the square. 8.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Give the exact solutions. x2 – 4x = 12

9. Solve the equation by using the Quadratic Formula. 9.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Give the exact solutions. x2 - 2x - 35 = 0

10. Solve the equation by completing the square or 10.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

the Quadratic Formula (your choice!)

Give the exact solutions. x2 + 16x = 2