Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block: \_\_\_\_\_\_\_

Algebra 2 Honor Spiral 11 Review

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| Solving by Completing the Square | |
| Solve the following by completing the square **OR** Quadratic Formula! | |
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| Applications of Quadratics | |
| A baseball pitching machine launches baseballs at an upward velocity of 75 miles per hour off the ground.   1. Write an equation describing the height of the baseball at time *t*. 2. After how long will the ball hit the ground? 3. What is the maximum height of the baseball? | |
| Properties of Exponents | |
| Simplify each expression below. Please leave only positive exponents. | |
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|  |  |
| Polynomial Basics | |
| **Simplify the expressions below.** | Sketch a graph of each polynomial. |
| 8. a.  b. | 10. |
| 9. a.  b. | 11. |