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! |
| 1.
 |  |
| Applications of Quadratics |
| 1. $h\left(t\right)=-16t^{2}+v\_{o}t+h\_{o}$

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. |
| 1.
 | 1.
 |
| 1.
 | 1.
 |
| Polynomial Basics |
| **Simplify the expressions below.** | Sketch a graph of each polynomial. |
| 8. a.b.  | 10.   |
| 9. a. b.  | 11.  |