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

Algebra 2 Honor Spiral 10 Review

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| Solving by Square Roots; Complex Numbers  |
| 1. Solve for all possible values of x.

a.  b.  | 1. Solve for all possible values of x.

 |
| Solving by Completing the Square  |
| Solve the following by completing the square. |
|  |  |
| Applications of Quadratics |
| 1. $h\left(t\right)=-16t^{2}+v\_{o}t+h\_{o}$

An apple falls out of a tree, from a branch 22 feet high. 1. Write an equation describing the height of the apple at *t* seconds.
2. After how many seconds will the apple hit the ground?
3. When will the apple reach its maximum height?
4. What is the maximum height of the apple?
 |
| Exponent Rules |
| 7. Simplify completely (no negative exponents):  | 8. Simplify completely (no negative exponents): |