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

Algebra 2 Honor Spiral 20 - Review

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| **Graphing Root Functions, Solving Radical Equations** |
| Sketch a graph of each function. Be sure to create an appropriate table and note domain and range. |
| 1.

 | 1.

 |
| Solve the equations below. Be sure to make sure that your answer is not extraneous. |
| 1.
 | 1.
 |
| **Variation and Graphing Simple Rational Functions** |
| Sketch a graph of the given rational function. Note all important information. |
| 1.

 | 1.

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| 1. The number of cookies you get is inversely related to the number of friends you have. If you have 4 friends you get 50 cookies. How many cookies do you get if you have 50 friends?
 | 1. z is jointly related to x and y. When x = 7, y = 12 and z = 100. What does z equal when x = 4 and y = 8?
 |
| **Simplifying Rational Expressions** |
| 1.
 | 1.
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| 1.
 | 1.
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| **Rational Equations; Sequences and Series** |
| 1. Give the next two terms of the sequence below, then write the general rule.

1, 4, 9, 16, …. | 1. Solve for x. Check for extraneous solutions.

 |
| 1. Write a general rule for the sequence below. Then find the 8th term.

-20, -14, -8, … | Solve for x. Check for extraneous solutions. 16.17. |