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

Algebra 2 Honor Spiral 22 - Review

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| Simplifying Rational Expressions | |
| 1. | 2. |
| Rational Equations; Sequences | |
| 1. Give the next two terms of the sequence below, then write the general rule.   4, 10, 16, …  4. Given the sequence below, write the general  rule (a­n).  -1, -8, -27, -64, …  5. Write a general rule for the sequence below. Then find the 8th term.  5, 7.5, 11.25, … | 6. Solve the rational equation. Be sure to check for extraneous solutions.  . |
| Series | |
| Find the sum of each series.  7.  8.  9. | Find the sum of each series, if possible:  10.  11. |
| Exponential and Logarithmic Functions - Graphs | |
| Graph the Exponential function. Include at least three points and identify any asymptotes  12.       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | |  |  | | --- | --- | | x | y | |  |  | |  |  | |  |  | |  |  | |  |  | |   Domain:  Range: | Graph the Exponential function. Include at least three points and identify any asymptotes  13.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | |  |  | | --- | --- | | x | y | |  |  | |  |  | |  |  | |  |  | |  |  | | |  |  |   Domain:  Range: |