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

Algebra 2 Honor Spiral 24 - Review

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| Series |
| Find the sum of the series.1. 2.  | Find the sum of the series, if possible:3.  |
| Exponential and Logarithmic Functions - Graphs |
| Graph the Exponential function. Include at least three points and identify any asymptotes1.

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| Logarithm Basics |
| 12. Convert Each Exponential to Log form.   | 13. Evaluate Each Logarithm   |
| Exponential and Logarithmic Equations and Models: A=P(1+r)n, A=P(1+r/n)nt, A=Pert |
| 14. Solve each equation:  | 15. Write an equation to fit each model and use it to answer the question.Ms. Glynn was holding a fundraiser for her favorite softball team. She started with $50, and after 3 days, had received a total of $85. Assume the donations increase following a continuous exponential growth model. Write an equation for the model, and find the total in the account after 30 days. Equation: Account: |
| Right Triangle Trigonometry |
| Given  , find  .Given  , find  .Given  , find  . | A kite with a string 150 feet long makes an angle of elevation of 45° with the ground, Assuming the string is straight, how high is the kite? Draw a picture and solve the problem. A great white shark swims 22 feet below sea level. If the shark is 67.7 feet from the sailboat, what isthe angle of depression from the boat to the shark? Draw a picture and solve the problem.  |