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 asymptotes       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | |  |  | | --- | --- | | x | y | |  |  | |  |  | |  |  | |  |  | |  |  | | | |
| 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 is  the angle of depression from the boat to the shark? Draw a picture and solve the problem. |