Int 3MA C11 DDAY Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per \_\_\_ Group \_\_\_

|  |  |
| --- | --- |
| 1.
 | 2.  |
| 1.
 | 4.  |
| 5. Sketch:

|  |  |
| --- | --- |
| Hole |  |
| Vertical Asymptote |  |
| Horizontal Asymptote |  |
| Slant Asymptote |  |

Extra Points

|  |  |
| --- | --- |
| x | y |
|  |  |
|  |  |
|  |  |

 | 6. Given: *Do Not Sketch*

|  |  |
| --- | --- |
| Hole |  |
| Vertical Asymptote |  |
| Horizontal Asymptote |  |
| Slant Asymptote |  |

 |
| 7. Solve the system using algebra. Show work.    | 8. Write the equation of the parabola passing through points. |
| 9. Given: Find the a) sum of the first 12 terms.b) the infinite sum. | 10. Find the first term algebraically for the arithmetic sequence if  and .  |
| 11. Find the value of the sixth term of the binomial expansion of  | 12. Solve   |
| 13. Divide  **by**  | 14. Write the equation in standard form given roots **and .** |
| 15. Graph one cycle for each of the following and find the amplitude, vertical shift, period and phase shift.

|  |  |
| --- | --- |
| a. Amplitude:Vertical Shift:Period:Phase Shift: |  |

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