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

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| --- | --- | --- |
|  | 2. | |
|  | 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: |  | | | |