Int 3MA C8 DDAY Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per \_\_\_\_ Group \_\_\_\_

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| 1. Sketch the graph
 | 1. Write as the product of linear factors

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| 3. Write the exact equation of the polynomial function  | 4. Write the exact equation of the polynomial function |
| 5. Write a polynomial function in standard form with the given roots. | 6. Write the polynomial function in standard form given the roots and.  |
| 7. Divide by   | 8. Solve.  |
| 9. Determine all the roots of  | 10. Determine all the roots of  |
| 11. Determine the degree, zeros and their multiplicity. Degree: Zeros:Multiplicity: | 12. Solve.  |
| 13. Expand the logarithm.  | 14. Find an exponential growth model () whose graph passes through the points (1,120) and (2, 168) and has the asymptote  |
| 15. Find the inverse of  | 16. Given,  and, solve the triangle. |
| 17. Circle **all** of the following statements that apply to the graph of .A.        The degree is 6.B.        It has negative orientation.C.        It has 6 distinct *x*-intercepts.D.        The range is all real numbers.E.        It passes through the origin. F.        (0, 2) is one of the roots.G.        Its inverse is a function.H.        The *y*-intercept is (0, –500). | 18. Find the inverse:  |
| 19. Use synthetic division to show that 3i is a zero of  | 20. Factora. b.  |