Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_

Class worksheet: Alg2H

Polynomials: Factors, roots, zeros

(book chapter 11)

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| --- |
| Example polynomial: |
| Degree of polynomial: \_\_\_\_ Leading Coefficient: \_\_\_\_  End behavior: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Factoring: |
| Factor Theorem: |

|  |
| --- |
| Roots:  Fundamental theorem of Algebra. |
| Complex roots |

Back to our polynomial:

End behavior:

Factoring:

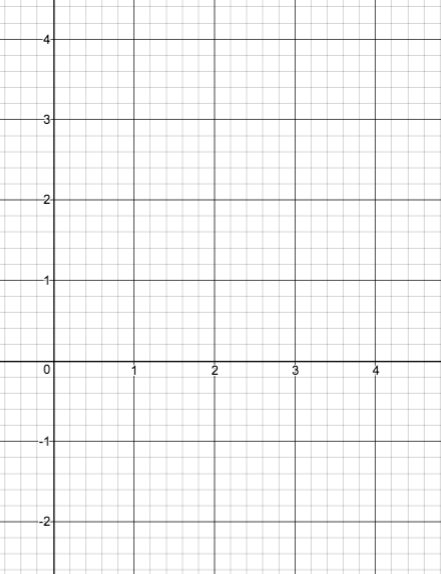
Roots:

1. \_\_\_\_\_\_\_\_\_\_\_\_ 4. \_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_\_\_\_ 5. \_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_

y-intercept: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Plotting: