**Honors Algebra 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Review: Unit 2 Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Block: \_\_\_\_\_\_\_\_**

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| 1.) Write the polynomial  in standard form.  | 2.) Classify the polynomial 5x – 3 by degree and number of terms.D: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ # of Terms: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 3.) Classify the polynomial  by degree and number of terms.D: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ # of Terms: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 4.) Classify the polynomial  by degree and number of terms.D: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ # of Terms: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Simplify completely.**

|  |  |
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| 5.)   | 6.)   |
| 7.)  | 8.)  |
| 9.) Find the 3rd term of the polynomial  using the Binomial Expansion Theorem. | 10.) Simplify completely using the Binomial Expansion Theorem. |

**Divide using Synthetic Division**

|  |  |
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| 11.)  | 12.)  |

**Perform the indicated operation using the given function.**

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|  |
| 13.) h(x) + j(x) | 14.)  |
| 15.) f(5) – h(3) | 16.) |
| 17.) g(f(x)) | 18.) h(j(-4)) |

**Factor each of the expressions completely.**

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| 19.)  | 20.)  | 21.)  |

**Solve each of the equations by factoring.**

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| 22.) | 23.)   |
| 24.)  | 25.)  |

**Write the polynomial equation in standard form with the given zeros.**

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| 26.) - 3, - 3, and 0 | 27.) 5 and 2i | 28.) 5 + 2i |