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

**Unit 3 Quiz – Are You Ready? Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block: \_\_\_\_\_\_\_\_\_\_**

**Keeper # 16**

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| **1.) Using the Remainder Theorem, determine the value of f(6) for the polynomial function .****I can use the remainder theorem to evaluate \_\_\_****I need to review this concept and try again \_\_\_\_** | **2.) Using the Remainder Theorem, determine if x = 3 is a zero of the polynomial. Explain how you know.****I can use the remainder theorem to determine zeros \_\_\_\_****I need to review this concept and try again \_\_\_\_\_** |
| **3.) Using the Factor Theorem, determine the value of “D” so that x + 3 is a factor of the polynomial .****I can use the factor theorem to determine factors \_\_\_\_****I need to review this concept and try again \_\_\_\_\_** | **4.) Factor the polynomial  completely, given that (x – 3) is a factor.** **I can use the factor theorem to factor polynomials completely \_\_\_\_****I need to review this concept and try again \_\_\_\_\_** |

**Keeper # 17**

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| **5.) List all of the possible rational, real roots of the polynomial .****I can find the possible, rational, real roots of a polynomial \_\_\_\_****I need to review this concept and try again \_\_\_\_** |

**Keeper # 18**

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| **6.) Find all of the roots of the polynomial function . State any solutions with multiplicity.** **I can find the roots of a polynomial \_\_\_\_\_\_****I need to review this concept and try again \_\_\_\_\_\_\_\_****I can state multiplicity \_\_\_\_\_\_****I need to review this concept and try again \_\_\_\_\_\_\_\_** | **7.) Find all of the roots of the polynomial function. State any solutions with multiplicity.****I can find the roots of a polynomial \_\_\_\_\_\_****I need to review this concept and try again \_\_\_\_\_\_****I can state multiplicity \_\_\_\_\_\_****I need to review this concept and try again \_\_\_\_\_\_\_\_** |

**Keeper # 19**

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| **8.) Write the polynomial function, in standard form, that has the given zeros.****6, 3, - 1****I can write equations of polynomial functions \_\_\_\_\_****I need to review this concept and try again \_\_\_\_\_** | **9.) Write the polynomial function, in standard form, that has the given zeros.****7i****I can write equations of polynomial functions \_\_\_\_****I need to review this concept and try again \_\_\_\_\_** |
| **10.) Write the polynomial function, in standard form, that has the given zeros.****5, i****I can write equations of polynomial functions \_\_\_\_\_\_****I need to review this concept and try again \_\_\_\_\_\_\_** |