

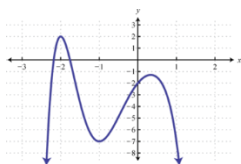
Unit 1 Learning Targets

Name _____ Period _____ Date _____

Learning Target	Assessment	M.L.4	M.L.3	M.L.2	M.L.1
1. I can add, subtract, & multiply polynomials.	1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, activities, quizzes, review, test, project				
2. I can use polynomial identities to factor and expand polynomials.	1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, activities, quizzes, review, test, project				
3. I can extend polynomial identities to complex numbers.	1.8, activities, quizzes, review, test, project				
4. I know and can apply the Remainder Theorem.	1.4, 1.5, 1.6, 1.7, 1.8, activities, quizzes, review, test, project				
5. I can find end behavior without graphing.	1.4, 1.5, 1.7, 1.8, activities, quizzes, review, test, project				
6. I can identify the zeros of a polynomial in standard form or factored form.	1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, activities, quizzes, review, test, project				
7. I can construct a rough graph using the zeros, multiplicity of a zero and end behavior.	1.5, 1.7, 1.8, activities, quizzes, review, test, project				
8. I can use long division & synthetic division to simplify a rational expression.	1.3, 1.7, 1.8, activities, quizzes, review, test, project				
9. I can use the rational zeros theorem to write a list of possible rational zeros of a polynomial function.	1.7, 1.8, activities, quizzes, review, test, project				
10. I can find the bounds for the zeros.	1.7, 1.8, activities, quizzes, review, test, project				
11. I can write a polynomial function when given the zeros of the function.	1.7, 1.8, activities, quizzes, review, test, project				
12. I can find all complex zeros of a polynomial function and write it in factored form.	1.8, activities, quizzes, review, test, project				

Mastery Level 4 = I've got this - I can teach this to others. **Mastery Level 3** = I understand - I can do this by myself.

Mastery Level 2 = I mostly get it - I can do this with help. **Mastery Level 1** = I don't understand - I cannot do this yet.



$$(2x^4 - 3x^2 + 4x - 9) \div (x + 2)$$

$$\begin{array}{r} -2 \overline{) 2 \quad 0 \quad -3 \quad 4 \quad -9} \\ \underline{-4 \quad 8 \quad -10 \quad 12} \\ 2 \quad -4 \quad 5 \quad -6 \quad 3 \end{array}$$

$$(2x^4 - 3x^2 + 4x - 9) \div (x + 2) = 2x^3 - 4x^2 + 5x - 6 + \frac{3}{x + 2}$$

$$\begin{array}{r} 9x^2 - 12x + 16 \\ 3x + 4 \overline{) 27x^3 + 0x^2 + 0x + 64} \\ \underline{-(27x^3 + 36x^2)} \\ -36x^2 + 0x + 64 \\ \underline{-(-36x^2 - 48x)} \\ 48x + 64 \\ \underline{-(48x + 64)} \\ 0 \end{array}$$

