Make sure you get in and get help if you can't figure out any of these problems if you have to do them for remediation.

SM3.Test 2A Remediation Packet	Name
1. Given $f(x) = x^4 - 2x^2 + 5x - 3$ find f(-2) Use synthetic division with the zero given to find the quadr zeros from low to high. Sketch a quick graph with the corre	2. Which of the following values result in an output of zero, or are zeros of $f(x) = x^3 - 7x^2 - 6x + 72$ -6,-4,-3,0,3,4,6 atic to factor. Write in Factored Form, and then list all the ect x and y-intercepts and shape.
3. $f(x) = x^3 - 6x^2 - 13x + 42$ Given a zero is at 2.	
4. Write the equation of a quadratic polynomial that has a solution at -13i.	5. Factor and sketch a graph for the equation. $y = x^2 - 4x$ $y = x^2 - 4$ $y = x^2 + 4$

6. Use the quadratic Formula to find the solution set for the given equation.	7. Use a graphing calculator to find an integer solution, then use the quadratic formula to find the
$x^2 + 73 = 16x$	Irrational zeros.

	$f(x) = x^3 - 8x^2 + 17x - 4$
8. Draw a graph with 3 real zeros and 0 complex zeros.	9. Draw a graph with 1 real zero and 2 complex zeros.
10. Given $f(x) = x^3 + 2x^2 + 49x + 98$ complete the following. A. Use a graphing calculator to find an integer zero. Do synthetic division then the quadratic formula to find the all the zeros. List the real on the top line separating with a comma, and the Imaginary or irrational on the bottom. Integer Zero: Irrational Zero(s): Complex Zero(s):	11. Use the table to find the expanded cubic polynomial that fits this table.xy-332-20112010102-123-204-1850640
12. Divide using long division: Divide using long division. SHOW ALL WORK NE $\frac{x^4 - 13x - 42}{x^2 - x - 6}$	EATLY.