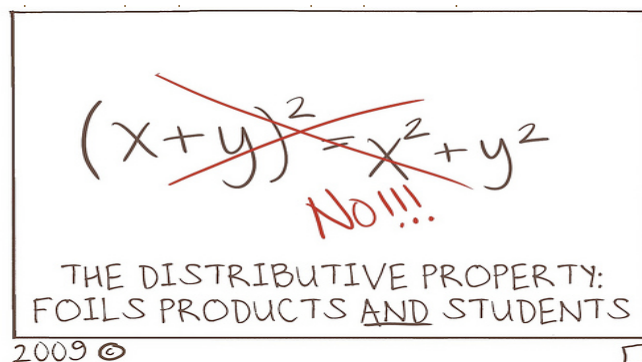


Algebra II Honors Ch 2 HW Syllabus*

Day	Date	Description	Homework
1		2.2 Evaluating Polynomial Functions (ONLY definition, direct sub and synthetic) 2.3 Add, Subtract and Multiply Polynomials	<ul style="list-style-type: none"> p. 99 (5-10 all, 17-23 odd) p. 107 (1, 5-11 odd, 17-21 odd, 27, 29, 45-49 odd, 56(a-c), 59)
2		Factoring Bootcamp 2 - <i>sum and difference of cubes, grouping, quadratic form</i> 2.4 Factor and Solve Polynomial Equations	<ul style="list-style-type: none"> p. 114 (3-29 odd, 43-49 odd, 54-56 all, 60a) Solving Polynomial Equations by Factoring WKST – EVENS only
3		Quiz: 2.1-2.4 2.5 Factor and Remainder Theorems – <i>dividing polynomials using long and synthetic division</i>	<ul style="list-style-type: none"> p. 124 (5-19 odd)
4		2.5 Factor and Remainder Theorems – <i>factoring completely given one factor, finding zeros given one zero</i> 2.6 Finding Rational Zeros – <i>Rational Zero Theorem</i> 2.7 Finding Rational Zeros – <i>finding all zeros</i>	<ul style="list-style-type: none"> Set A (on bottom of syllabus) Finding Zeros of Polynomial Functions WKST (1, 2, 5)
5		2.7 Finding Rational Zeros – <i>Complex Conjugates Theorem, Irrational Conjugates Theorem, writing polynomials given zeros</i> 2.8 Analyzing Polynomial Functions	<ul style="list-style-type: none"> Finding Zeros of Polynomial Functions WKST (3a-c, 4) Analyzing Polynomial Functions WKST
6		Quiz 2.5-2.7 Sketching Polynomial Functions	<ul style="list-style-type: none"> Sketching Polynomial Functions WKST p. 154 (7, 9, 11, 18, 19, 25)
7		Ch 2 Review	<ul style="list-style-type: none"> Ch 2 Review WKST
8		Ch 2 Test	<ul style="list-style-type: none"> *SPIRAL ASSIGNMENT 1

SET A

- $\frac{3x^3 - 2x^2 + 4x - 3}{x^2 + 3x + 3}$
- $(2x^4 - x^3 + x^2 + x - 3) \div (x^2 + x - 1)$
- $\frac{x^4 + 2x^3 - x^2 - 7x - 7}{x^2 - 2}$
- $(x^4 - 6x^2 + 8) \div (x - \sqrt{2})$
- The area of a rectangle is $2x^2 - 11x + 15$ square feet. The length of the rectangle is $2x - 5$ feet. What is the width of the rectangle?



Set A Answers

1. $3x - 11 + \frac{28x + 30}{x^2 + 3x + 3}$	2. $2x^2 - 3x + 6 - \frac{8x - 3}{x^2 + x - 1}$	3. $x^2 + 2x + 1 - \frac{3x + 5}{x^2 - 2}$
4. $x^3 + \sqrt{2}x^2 - 4x - 4\sqrt{2}$	5. $x - 3$	