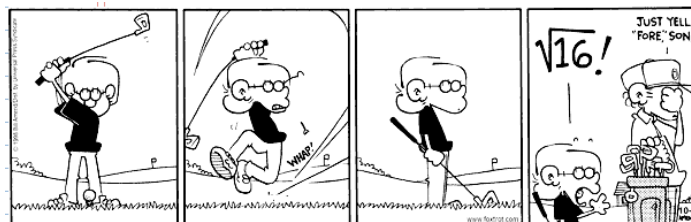


Algebra II Honors
Ch 1 HW Syllabus*
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Day	Date	Description	Homework
1		Welcome Number Sets & Set/Interval Notation	<ul style="list-style-type: none"> Classifying Numbers WKST Set and Interval Notation WKST
2		Domain and Range 1.1 Graph Quadratic Functions in Standard Form	<ul style="list-style-type: none"> Domain and Range WKST Graphing Quadratics in Standard Form WKST
3		Quiz: Number Sets, Set/Interval Notation, D&R, 1.1 Factoring Bootcamp – <i>Factoring GCF, Trinomials, Perfect Square Trinomials, Difference of Squares</i>	<ul style="list-style-type: none"> p. 21 (3-23 odd) p. 29 (3-29 odd, 59, 61)
4		1.7 Complete the Square – <i>CTS, Writing functions in vertex form</i> 1.2 Graph Quadratic Functions in Vertex or Intercept Form	<ul style="list-style-type: none"> p. 55 (41-49 odd) p. 15 (1, 3, 7, 11, 12, 13, 15, 17, 23, 25, 29, 33, 39) SET A (See 2nd page of syllabus)
5		Quiz: Factoring, 1.2, 1.7 Ch 1A Review	<ul style="list-style-type: none"> Ch 1A Review WKST
6		Ch 1A Test 1.3 & 1.4 Solving Quadratics by Factoring	<ul style="list-style-type: none"> p. 22 (25-41 odd, 45-59 odd) p. 29 (33-49 odd, 53-57 odd)
7		Square Root Review 1.6 Complex Numbers	<ul style="list-style-type: none"> p. 35 (1-19 odd, 20) p. 45 (1, 17-33 odd, 51-55 odd) SET B (See 2nd page of syllabus)
8		Quiz: 1.3, 1.4, 1.6 1.5 Solving by Finding Square Roots	<ul style="list-style-type: none"> p. 36 (21, 23-33 odd, 35, 36) p. 45 (7-11 odd)
9		1.7 Complete the Square – <i>Solving quadratic equations by completing the square</i> 1.8 Quadratic Formula	<ul style="list-style-type: none"> p. 54 (27-33 odd, 37, 51) p. 62 (3-19 eoo, 31-33 all, 40-42 all, 49, 52-55 all, 57)
10		Quadratic Word Problems	<ul style="list-style-type: none"> Quadratic Word Problems WKST (1-12 all) Set C (See 2nd page of syllabus)
11		Quiz: 1.5, 1.7, 1.8, Word Problems Ch 1B Review	<ul style="list-style-type: none"> Ch 1B Review WKST
12		Ch 1B Test 2.1 Properties of Exponents	<ul style="list-style-type: none"> p. 91 (24-39 all, 42-46 all)

***EOO – Every Other Odd

***Answers not listed in the back of the book can be found at <http://www.slader.com/textbook/9780547647159-larson-algebra-2-common-core/>



SETS

SET A

Rewrite the quadratic function in intercept form. Then, identify the x-intercepts.

1. $f(x) = 3x^2 - 8x + 5$

2. $f(x) = 9x^2 - 9$

3. $f(x) = 9x^2 - 9x$

4. $f(x) = 8x^2 - 38x - 10$

SET B

Evaluate each expression below.

1. i^{2357}

2. i^{168}

3. i^{1334}

4. i^{515}

5. $4i\left(\frac{i}{2}\right)^2(-2i)^3$

6. $(1+3i)^3$

SET C

Solve each quadratic equation.

1. $2x^2 + 8x + 22 = x^2$

2. $1 - 4(x - 6)^2 = 17$

3. $3x^2 - 2 = 148$

4. $-5x^2 - 6x = -4x^2 - 16$

5. $x^2 = 6x - 25$

6. $2x^2 + x + 3 = x - 21$

Find the zeros.

7. $f(x) = x(x - 8) + 15$

8. $g(x) = 5x^2 - 100$

SET ANSWERS

SET A

1. $f(x) = (3x - 5)(x - 1), x = 1, \frac{5}{3}$

2. $f(x) = 9(x + 1)(x - 1), x = \pm 1$

3. $f(x) = 9x(x - 1), x = 0, 1$

4. $f(x) = 2(4x + 1)(x - 5), x = -\frac{1}{4}, 5$

SET B

1. i

2. 1

3. -1

4. $-i$

5. 8

6. $-26 - 18i$

SET C

1. $-4 \pm i\sqrt{6}$

2. $6 \pm 2i$

3. $\pm 5\sqrt{2}$

4. $-8, 2$

5. $3 \pm 4i$

6. $\pm 2i\sqrt{3}$

7. $(3, 0), (5, 0)$

8. $(\pm 2\sqrt{5}, 0)$