Week Mar 10-14   ALGEBRA 1B ---- Chapter 7 Section 3

Monday - Complete Studyisland.com session on Polynomials individually 1 student finish Firefly Algebra session. **HW: pg 378/online 7.2 #76-79,89-92**

Tuesday - Review Friday's quiz with focus on division/GFC factoring

- see/do as notes/examples # 11-16 on next slide.
- Do various examples off missed problems from studyisland.com worksheet.
- HW: Assign online **7.3/pg 384 #43-45 all, 47-53 odds, 54**

Wednesday - Check and review homework

- Do a studyisland.com group session as checkpoint teacher led.

Thursday - Quiz and PIe day celebration with refreshments

Friday - No class/school as senior presentations and teacher inservice

Samples of Work from studyisland.com and textbook

Simplify the following expression.

$$(2x^6 + 14x^4 - 19x^3 - 6x^2 - 2) - (4x^6 - 16x^4 + 8x^3 - 3x + 12)$$

ANSWER NOT PROVIDED BY USER

✗ ☐ **A.** $-2x^6 + 30x^4 - 27x^3 - 6x^2 + 3x - 14$

☐ **B.** $6x^6 + 30x^4 - 27x^3 - 3x - 14$

☐ **C.** $-2x^6 - 2x^4 - 11x^3 - 6x^2 - 3x + 10$

☐ **D.** $6x^6 + 30x^4 - 27x^3 - 6x^2 + 3x + 14$

In Exercises 76–79, simplify the expression. Write your answer using only positive exponents.

76. $10^2 \cdot 10^9$

77. $\dfrac{x^5 \cdot x}{x^8}$

78. $(3z^6)^{-3}$

79. $\left(\dfrac{2y^4}{y^3}\right)^{-2}$

11. $\dfrac{4x^5 - x^7 + 7x^4}{x^3}$

12. $\dfrac{10y^2 + 6y^4 + 8y^3}{2y^2}$

13. $\dfrac{7b + 14}{b + 2}$

14. $\dfrac{-9h + 27}{h - 3}$

CALCVIEW

15. $\dfrac{(5p - 20)(p - 3)}{p - 4}$

16. $\dfrac{(3q + 12)(2q - 1)}{(2q - 1)(q + 4)}$

In Exercises 89–92, find the product.

89. $-2a^2(4a + 9)$

90. $(b - 3)(b - 6)$

91. $(g^2 + 8)(2g + 5)$

92. $(v + 4)(-6v^2 - 6v + 10)$

Section 7.1: Adding and Subtracting Polynomials

Common Core State Standards: A.SSE.A.1a, A.APR.A.1
Learning Target: Add and subtract polynomials.
Success Criteria

- Classify polynomials.
- Add and subtract polynomials.
- Model real-life situations using sums and differences of polynomials.

Vocabulary: monomial, degree of a monomial, polynomial, binomial, trinomial, degree of a polynomial, standard form, leading coefficient, closed

Section 7.3: Special Products of Polynomials

Common Core State Standards: A.SSE.A.1a, A.APR.A.1
Learning Target: Use patterns to find products of polynomials.
Success Criteria

- Use the square of a binomial pattern.
- Multiply binomials using the sum and difference pattern.
- Solve problems using special product patterns.

Section 7.2: Multiplying and Dividing Polynomials

Common Core State Standards: A.APR.A.1
Learning Target: Multiply and divide polynomials.
Success Criteria

- Multiply and divide polynomials by monomials.
- Multiply binomials using the Distributive Property.
- Multiply binomials using the FOIL Method.
- Multiply binomials and trinomials.

Vocabulary: FOIL Method

Polynomials - perform operations with monomials and binomials as focus for Algebra 1 Keystone Exam.