

Week Feb 24-28 ALGEBRA 1B ---- Chapter 7 Section 3

Monday - Online Dynamic Classroom Activity for 7.2 multiplying polynomials # 1-11, 17-21, 47 odds , after reviewing intro on online tools of firefly

Tuesday - Work on Firefly benchmark test

Wednesday - If needed, use Firefly again to finish testing, follow by multiplying kuta sheet of polynomials on special products (section 7.3) with soft practice book pg 125

Thursday - Practice more with section 7.3 online dynamic classroom #1-7, 13-21 odds only first then evens backwards to do.

Friday - Review yesterday assignment and complete activity online as exit ticket with work paper.

Review 7.2 & Work with 7.3 Objectives

In Exercises 1–8, find the product.

1. $2c(5c^2)$

3. $-4r^2(9r + 6)$

5. $7w^3(w^2 - 4w - 1)$

7. $(15 - 3g^2)(8g^3)$

In Exercises 9–16, find the product.

9.
$$\begin{array}{r} 2n^3 + 8n^2 - 20n \\ 2n \end{array}$$

11.
$$\begin{array}{r} 4x^5 - x^7 + 7x^4 \\ x^3 \end{array}$$

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.



KEY IDEA

Sum and Difference Pattern

Algebra

$$(a + b)(a - b) = a^2 - b^2$$



KEY IDEA

Square of a Binomial Pattern

Algebra

$$(a + b)^2 = a^2 + 2ab + b^2$$

$$(a - b)^2 = a^2 - 2ab + b^2$$

Example

$$\begin{aligned} (x + 5)^2 &= (x)^2 + 2(x)(5) + (5)^2 \\ &= x^2 + 10x + 25 \end{aligned}$$

$$\begin{aligned} (2x - 3)^2 &= (2x)^2 - 2(2x)(3) + (3)^2 \\ &= 4x^2 - 12x + 9 \end{aligned}$$