

## Week Mar 3-7 ALGEBRA 1B ---- Chapter 7 Section 3

**Monday** - Complete the pg 125 section 7.3 on special products page including third column.

**Tuesday** - Finish work on Firefly benchmark test and start kuta sheet packet on midchapter review of multiplying, adding and subtracting polynomial expressions.

**Wednesday** - SAT administration - therefore students continue practice with kahoot and kuta worksheets.

**Thursday** - Review kuta worksheets for quiz on Friday

**Friday** - TEST on chapter 7 sections 1-3 and Chapter 6 section 1

# 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 quotient.

9. 
$$\frac{2n^3 + 8n^2 - 20n}{2n}$$

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

## 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**

$$(x + 5)^2 = (x)^2 + 2(x)(5) + (5)^2 \\ = x^2 + 10x + 25$$

$$(2x - 3)^2 = (2x)^2 - 2(2x)(3) + (3)^2 \\ = 4x^2 - 12x + 9$$