

LESSON
18-3

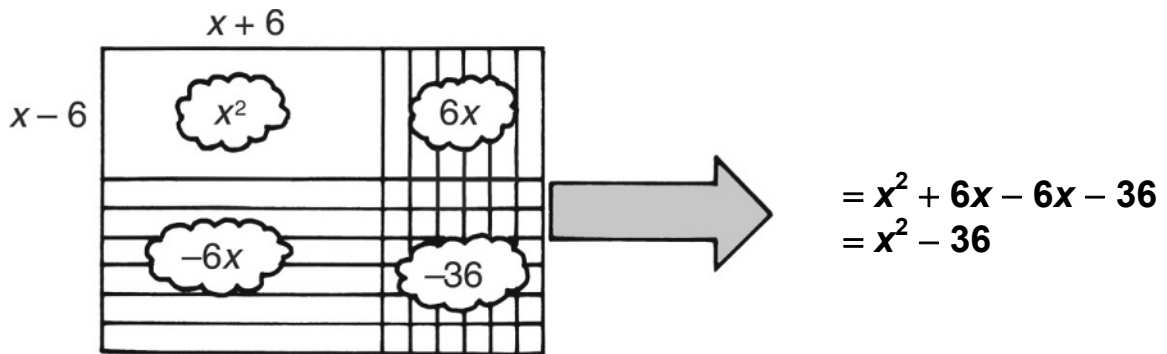
Special Products of Binomials

Success for English Learners

Problem 1

PERFECT SQUARE TRINOMIALS		
+		—
SQUARE of a SUM		SQUARE of a DIFFERENCE
$(a + b)^2 = a^2 + 2ab + b^2$		$(a - b)^2 = a^2 - 2ab + b^2$
$a = 3x, b = 2y$		$a = 4c, b = 5d$
$(3x + 2y)^2$ $(3x)^2 + 2(3x)(2y) + (2y)^2$ $9x^2 + 12xy + 4y^2$		$(4c - 5d)^2$ $(4c)^2 - 2(4c)(5d) + (5d)^2$ $16c^2 - 40cd + 25d^2$

Problem 2



1. What is the only difference between the square of a sum and the square of a difference?

2. How many terms are in a perfect square trinomial? _____

3. How many terms does a difference of square have? _____