DECEMBER 10, 2015

UNIT 4: POLYNOMIALS

SECTION 5.2: LIKE TERMS AND UNLIKE TERMS

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WHAT'S THE POINT OF TODAY'S LESSON?

We will continue working on the Math 9 Specific Curriculum Outcome (SCO) "Patterns and Relations 5" OR PR5 which states:

PR5: "Demonstrate an understanding of polynomials (limited to polynomials of degree less than or equal to 2)."



What does THAT mean???

Polynomials, or "pre-algebra", prepare us for solving equations ("algebra").

SCO PR5 means that we will learn about the different parts of polynomials which are a combination of numbers, variables (letters) and mathematical operations (+/-/x). We will use "algebra tiles" (little plastic rectangles and squares) to help us understand polynomials.



HOMEWORK QUESTIONS?

(Pages 222 / 223, #6 TO #8, #12 and #13)

EXAMPLE 3 - PAGE 220/221:

Write a polynomial to represent the perimeter of each rectangle.

Remember: P (rectangle) = s + s + s + s OR = 2l + 2w

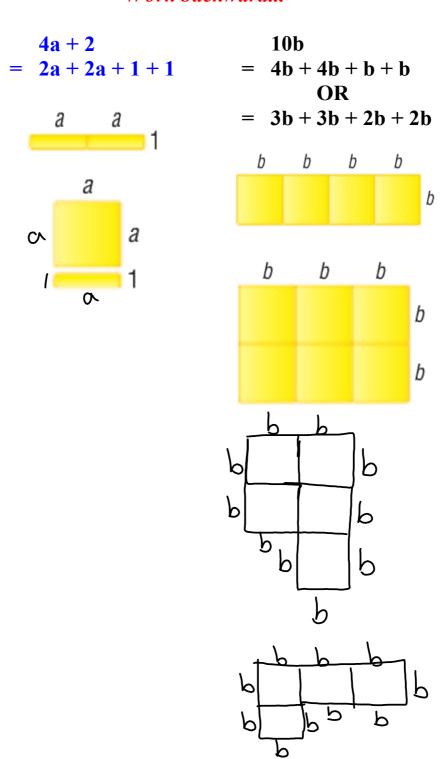
EXAMPLE 3 - PAGE 220/221 (cntd.):

Each polynomial represents the perimeter of a rectangle. Use algebra tiles to make the rectangle.

a) 4a + 2

b) 10b

Work backward...



EXAMPLE 4 - PAGE 221:

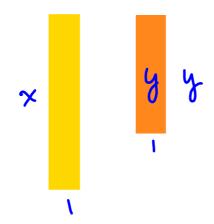
A polynomial may contain more than one variable. Here is a polynomial containing two variables - "x" and "y"; simplify the polynomial:

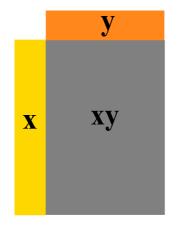
$$4xy + 2xy - y^2 - 3x^2 + 2xy - x - 3y^2$$

$$= 4xy + 2xy - y^2 - 3y^2 - 3x^2 - x$$

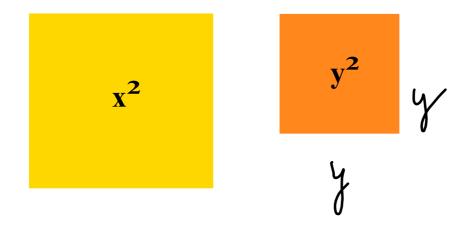
$$= 6xy - 4y^2 - 3x^2 - x$$

$$= -3x^2 - 4y^2 - x + 6xy$$









CONCEPT REINFORCEMENT:

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Page 223: #14, #15 and #19

Page 224: #20 and #22