# Curriculum Outcome

- (PR 5)Demonstrate an understanding of polynomials (limited to of degree less than or equal to 2).
- (PR 6) Model, record and explain the operations of addition and subtraction of polynomial expressions, concretely, pictorially and symbolically (limited to polynomials of degree less than or equal to 2).
- (PR 7) Model, record and explain the operations of multiplication and division of polynomial expressions (limited to polynomials of degree less than or equal to 2) by monomials, concretely, pictorially and symbolically.

**Student Friendly:**
**“Subtracting Polynomials "**

1) Collect like terms and Simplify

**a)$(5x^2 -2x +7) +(-8x^2 + 9x -12)$**

$5x^2 - 2x + 7 \quad -8x^2 + 9x - 12$

$5x^2 - 8x^2 - 2x + 9x + 7 - 12$

$-3x^2 + 7x - 5$

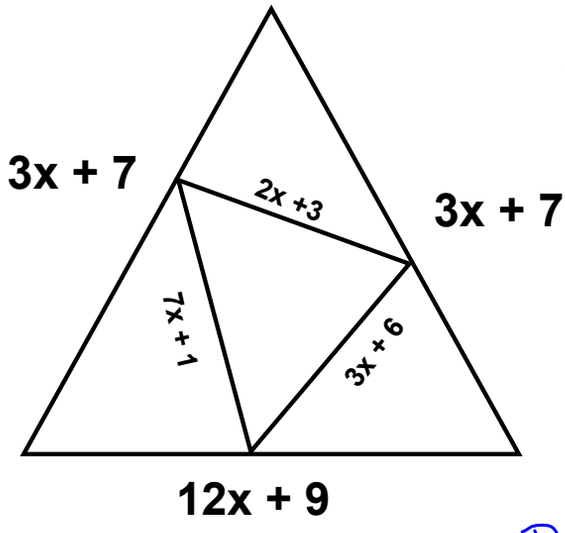
**b)$(12x^2 -8xy +5y^2) -(6x^2 - 13xy + 7)$**

$12x^2 - 8xy + 5y^2 - 6x^2 + 13xy - 7$

$12x^2 - 6x^2 + 5y^2 - 8xy + 13xy - 7$

$6x^2 + 5y^2 + 5xy - 7$

# The diagram shows one triangle inside another triangle. What is the difference in perimeter of the triangles?




Big △

$P = (3x+7) + (3x+7) + (12x+9)$

$P = 3x+7+3x+7+12x+9$

$P = 3x+3x+12x+7+7+9$

$\boxed{P = 18x + 23}$

Sm △

$P = (2x+3) + (3x+6) + (7x+1)$

$P = 2x+3+3x+6+7x+1$

$P = 2x+3x+7x+3+6+1$

$P = 12x + 10$

Big − small

$(18x+23) - (12x+10)$

$18x+23-12x-10$

$18x-12x+23-10$

$\boxed{6x+13}$

What polynomial is subtracted from $3x^2 - 7x + 9$, to give a difference of $-5x^2 + 3x - 8$

$$3x^2 - 7x + 9$$
$$-(8x^2 - 10x + 17)$$
$$-5x^2 + 3x - 8$$

$3 - (\ ) = 5$

$-7 - (\ ) = 3$

$9 - (\ ) = -8$

# Class/Homework

Page 234 - 236

(No algebra tiles just combine like terms and subtract)

#7
#8
#9
#10

#12 just correct
#13a, b
#15 acd
#16a
#17
#18

Quiz Review
Mid Unit review

-All questions