Task 2 & 3a

Feb. 16, 2016

5.3 Adding Polynomials

FOCUS

- Use different strategies to add polynomials.

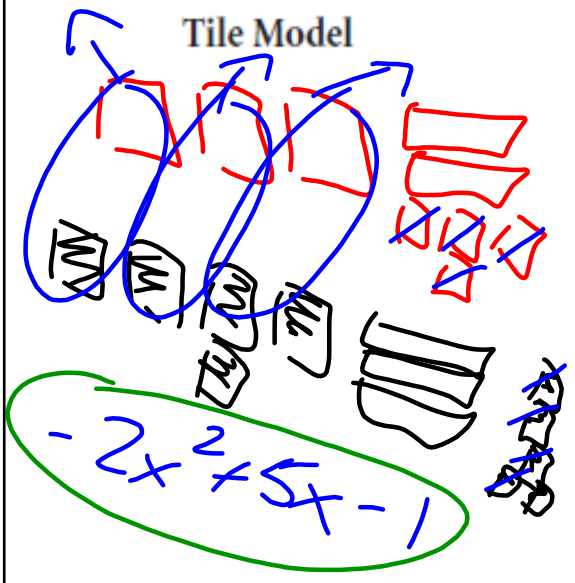
Sep 22-9:41 PM

Connect

To determine the sum of

$(3x^2 + 2x + 4) + (-5x^2 + 3x - 5)$

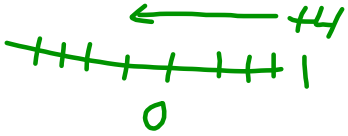
Tile Model



Symbolic Record

$3x^2+2x+4-5x^2+3x-5$

$=-2x^2+5x-1$



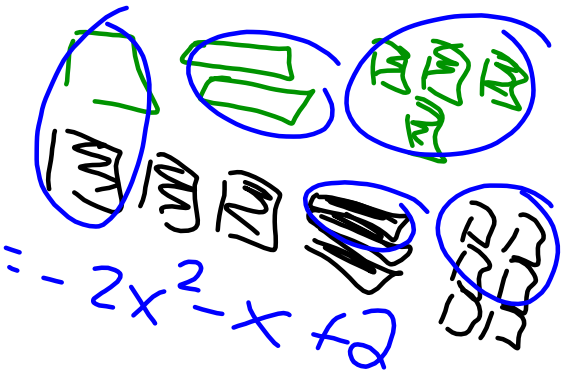
Sep 30-12:53 PM

YOU TRY! Add using algebra tiles and symbolic record

$(x^2 + 2x - 4) + (-3x^2 - 3x + 6)$

SOLUTION:

Method 1



$= -2x^2 - x + 2$

Method 2

$x^2+2x-4-3x^2-3x+6$

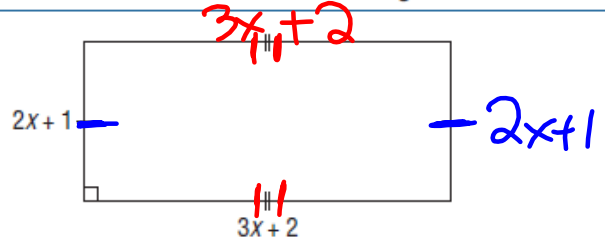
$= -2x^2 - x + 2$

Sep 22-8:25 PM

Example 2 Determining a Polynomial for the Perimeter of a Rectangle

a) Write a polynomial for the perimeter of this rectangle. Simplify the polynomial.

b) ~~Substitute to check the answer.~~



SOLUTION:

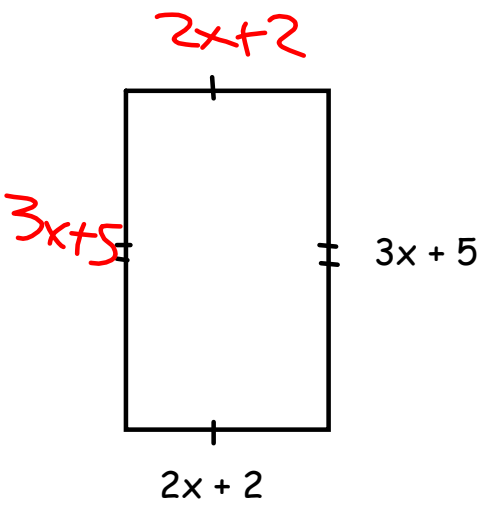
Perimeter: $(2x+1) + (3x+2) + (2x+1) + (3x+2)$

$= 10x + 6$

Sep 22-8:25 PM

YOU TRY!

Write the polynomial to represent the perimeter and solve.



SOLUTION:

$P=(2x+2)+(3x+5)+$
$(2x+2)+(3x+5)$
$P=10x+14$

Sep 22-8:25 PM